

38

The Architect & Building News

21 September 1960 V. 218/12 1s. Weekly

Three Factories

Library Notes





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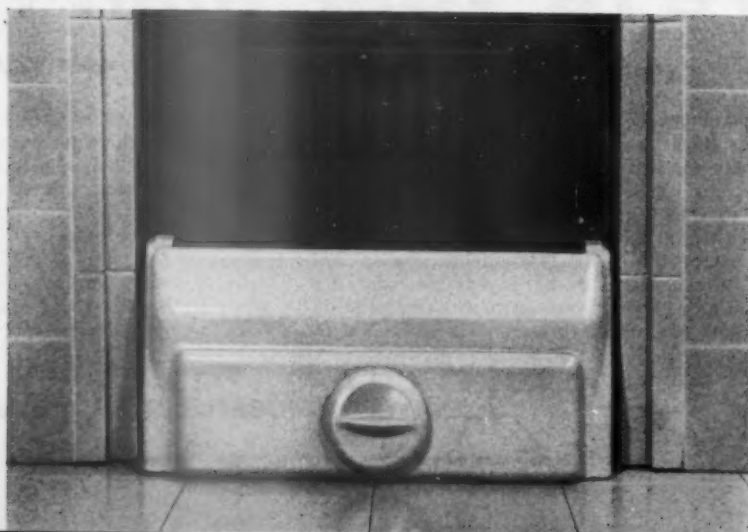
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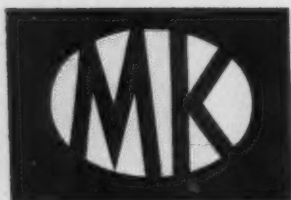
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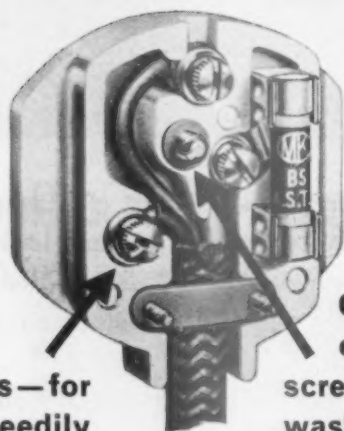
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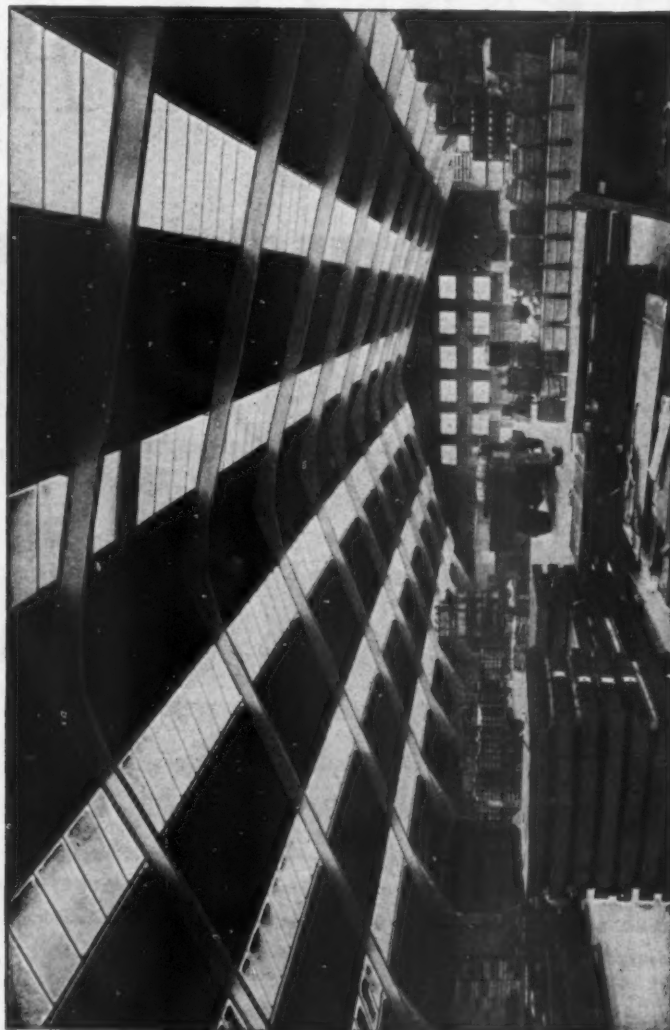
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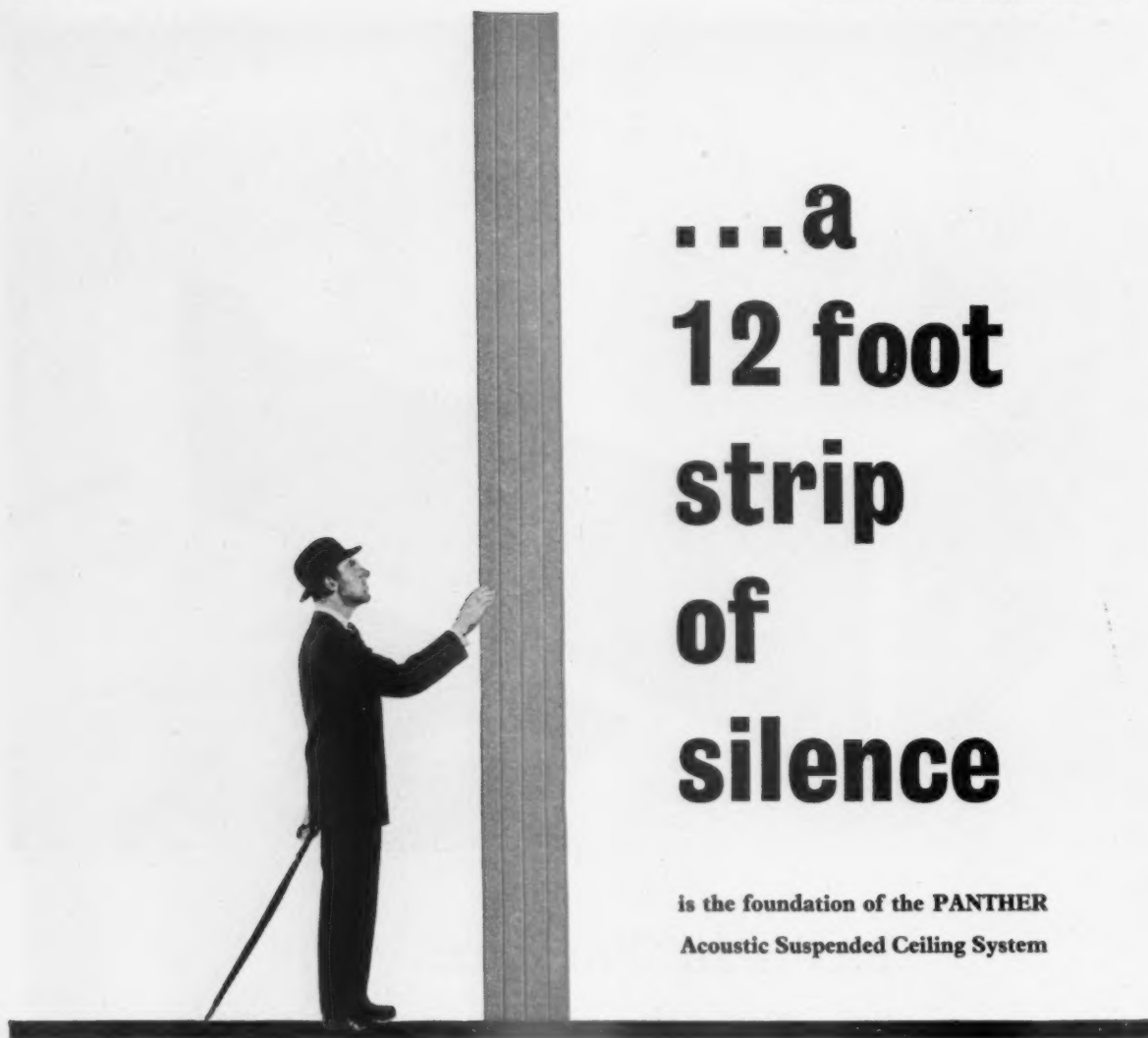
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P.780

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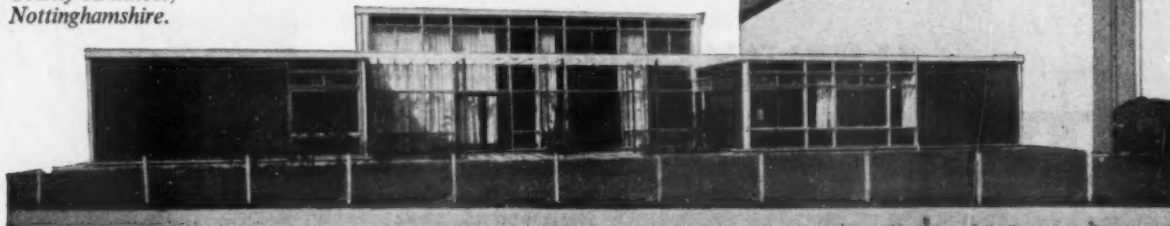
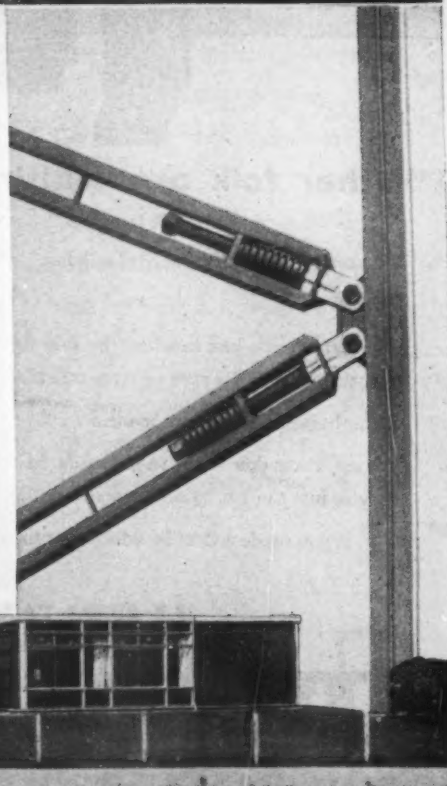
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*Architect: W. D. Lacey,
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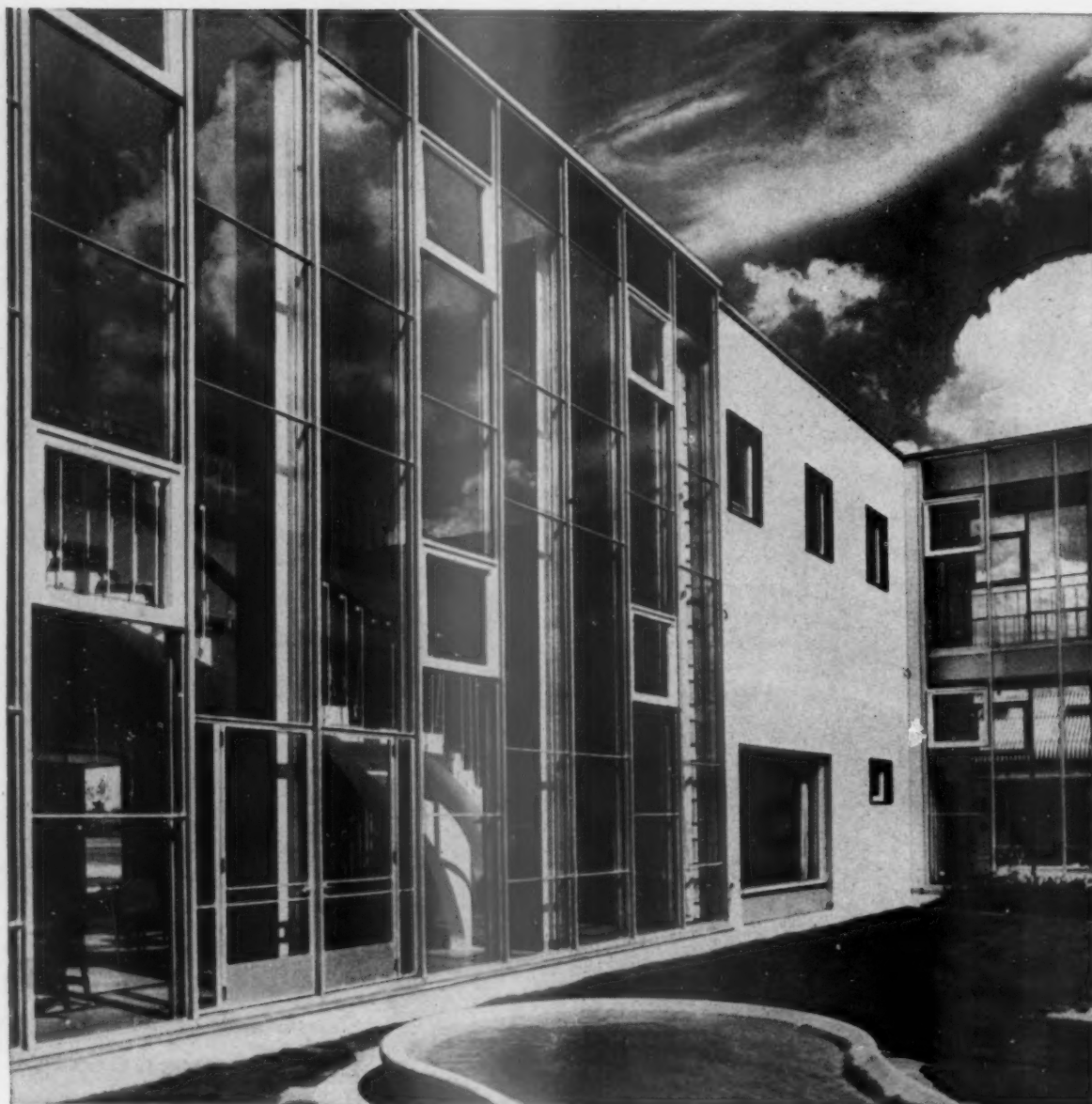
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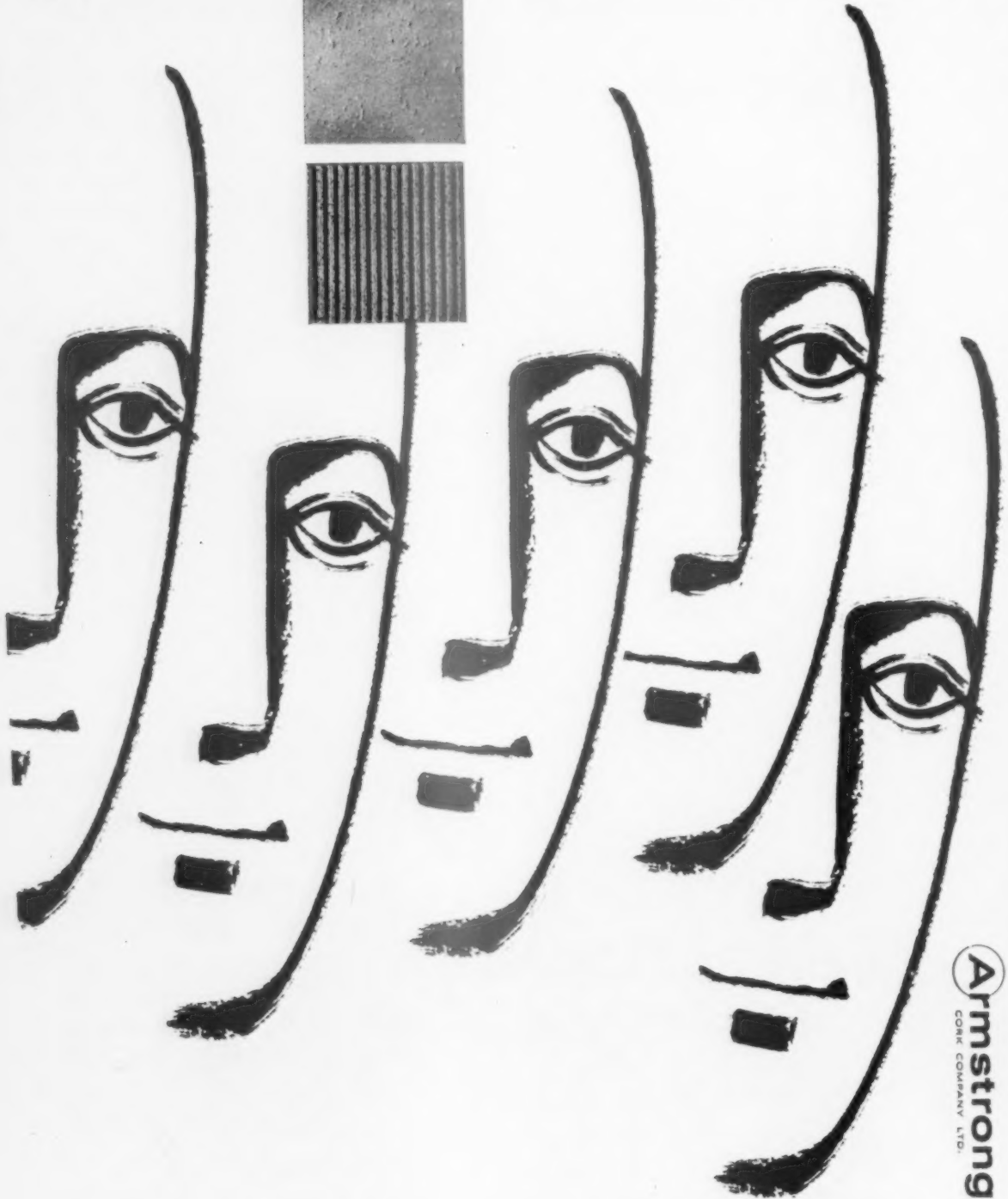
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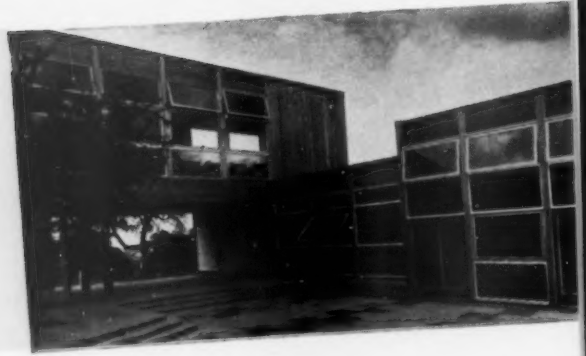
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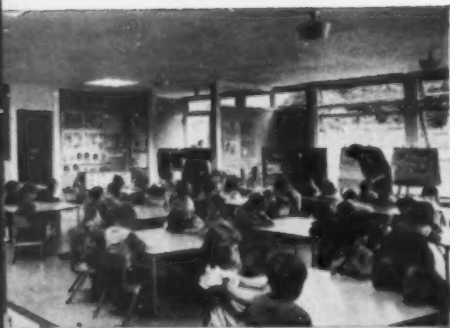
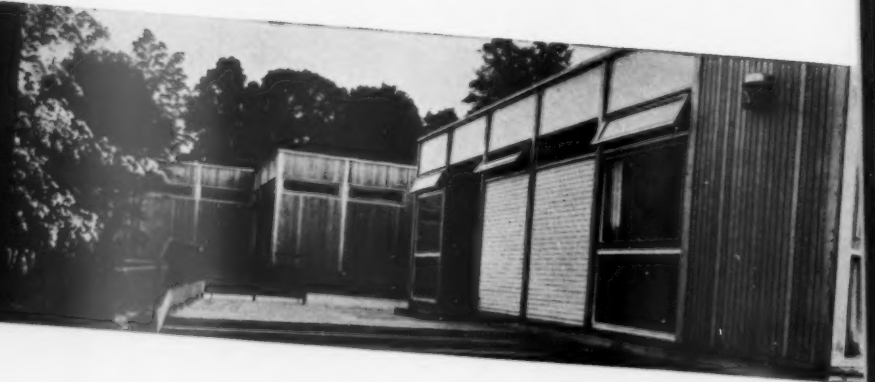
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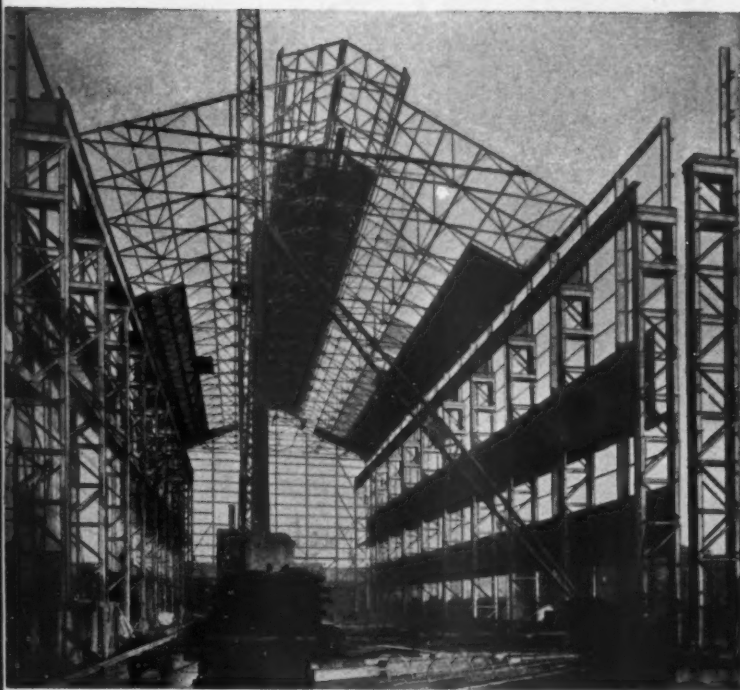
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BURGESS SUSPENDED CEILINGS

AT4a Technical details, N.P.L. Report, and extract from Joint Fire Research Organisation report.

ATH2 Radiantly heated by hot water.

ETH1 Radiantly heated by electricity.

AT7 Module sizes, introduction to Motif Tile.

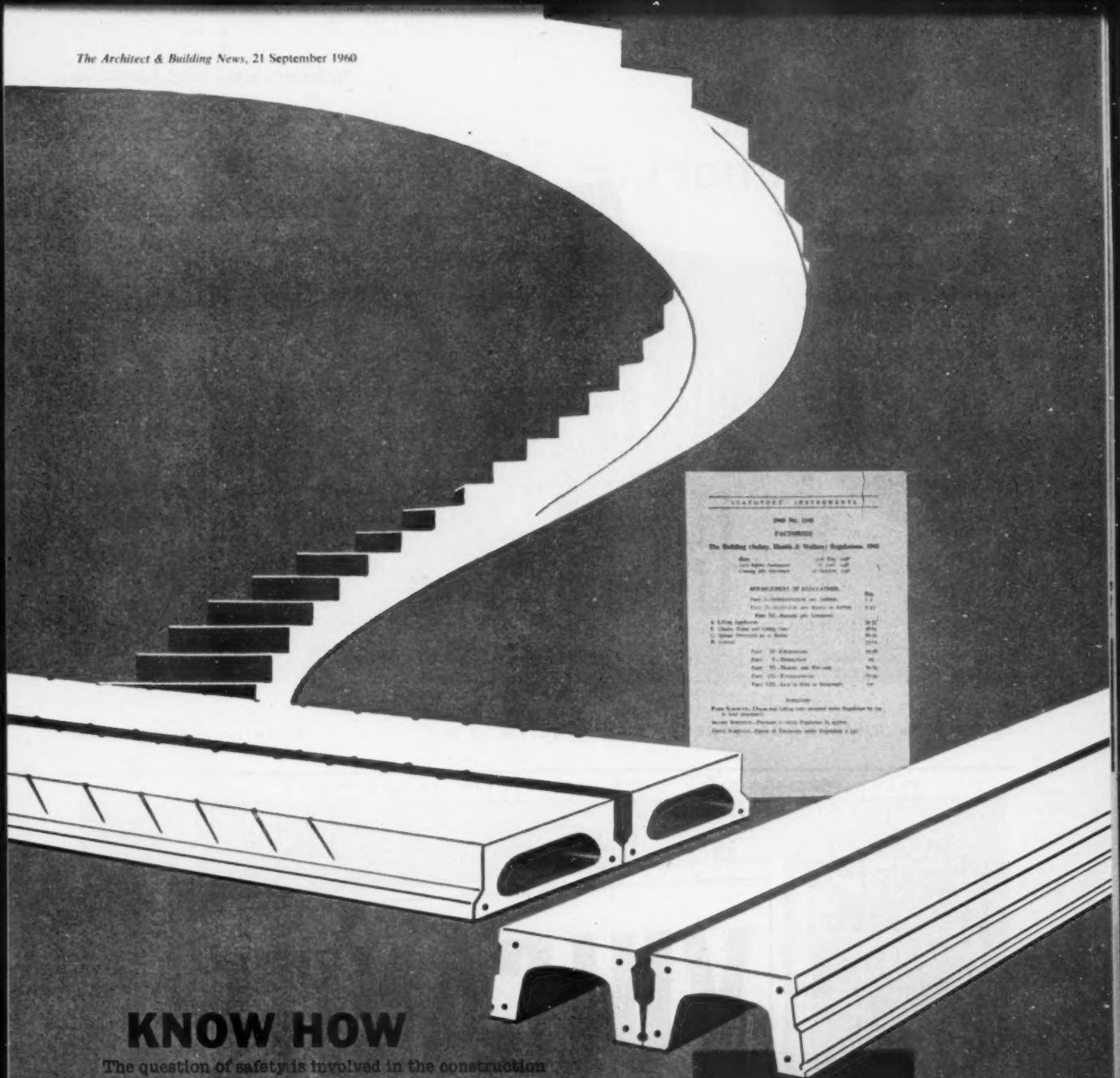
AT8 Fire report on Radiantly heated ceiling.

RIBTILE Introduction to the new Burgess Ribtile.

SHEETS 1 TO 4 Details of Burgess suspension system.

Leaflets illustrated are available on request together with price list and names of distributors.

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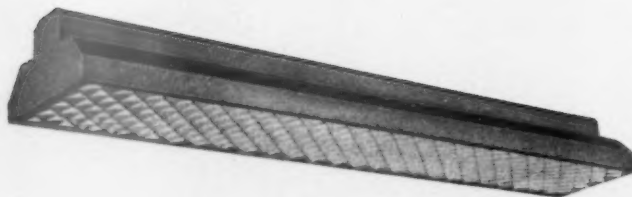
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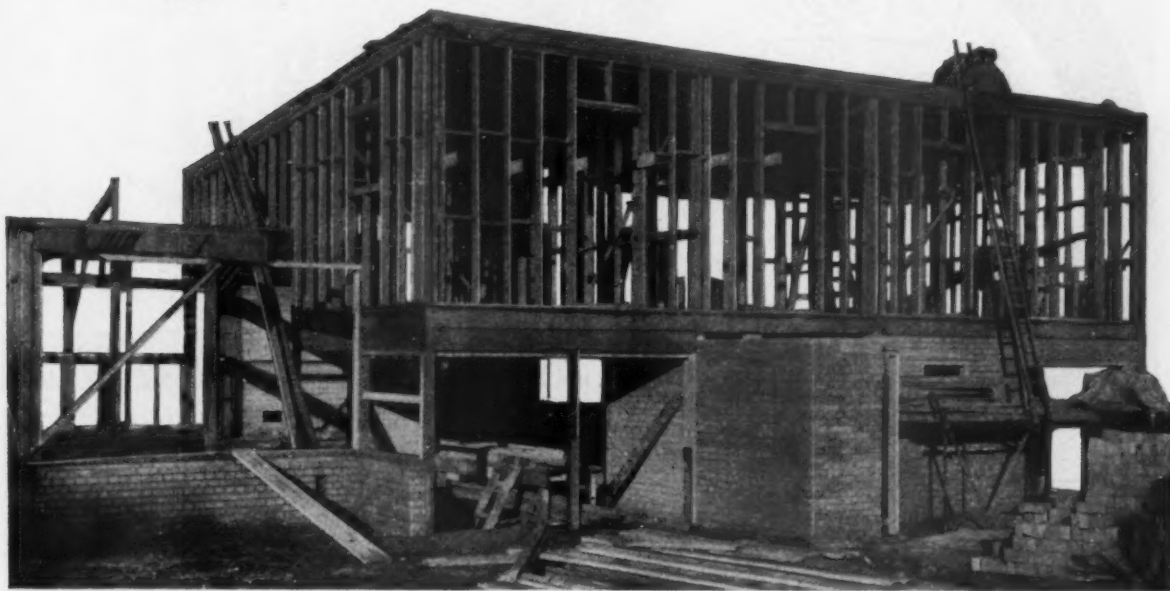
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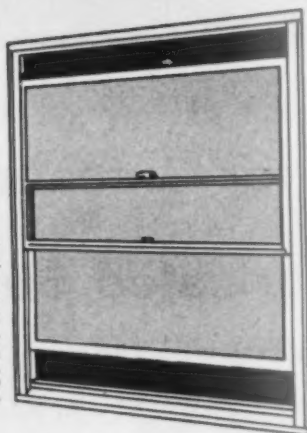


values, can often be substituted for full-size sawn timber of other softwoods. It is available in long lengths and specific lengths if required.

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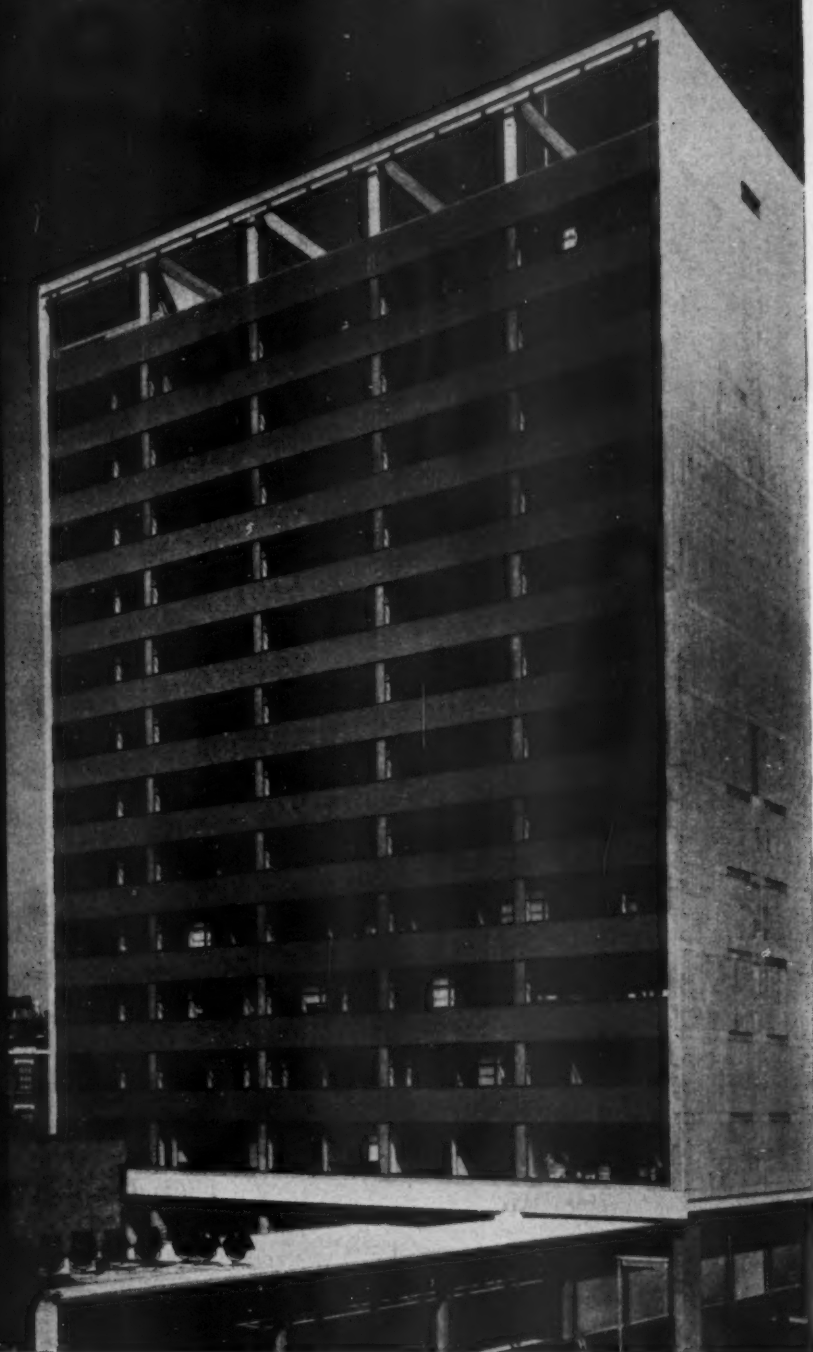
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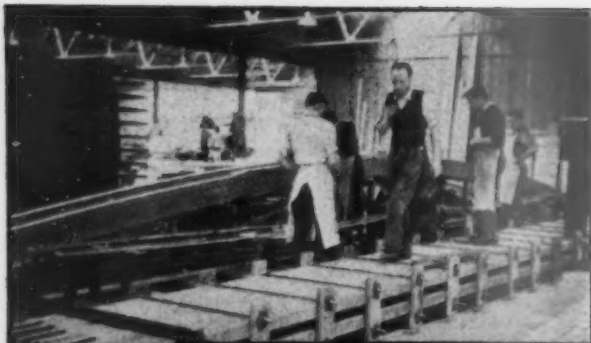


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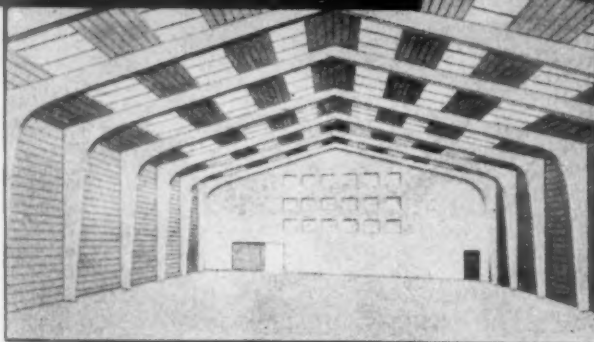
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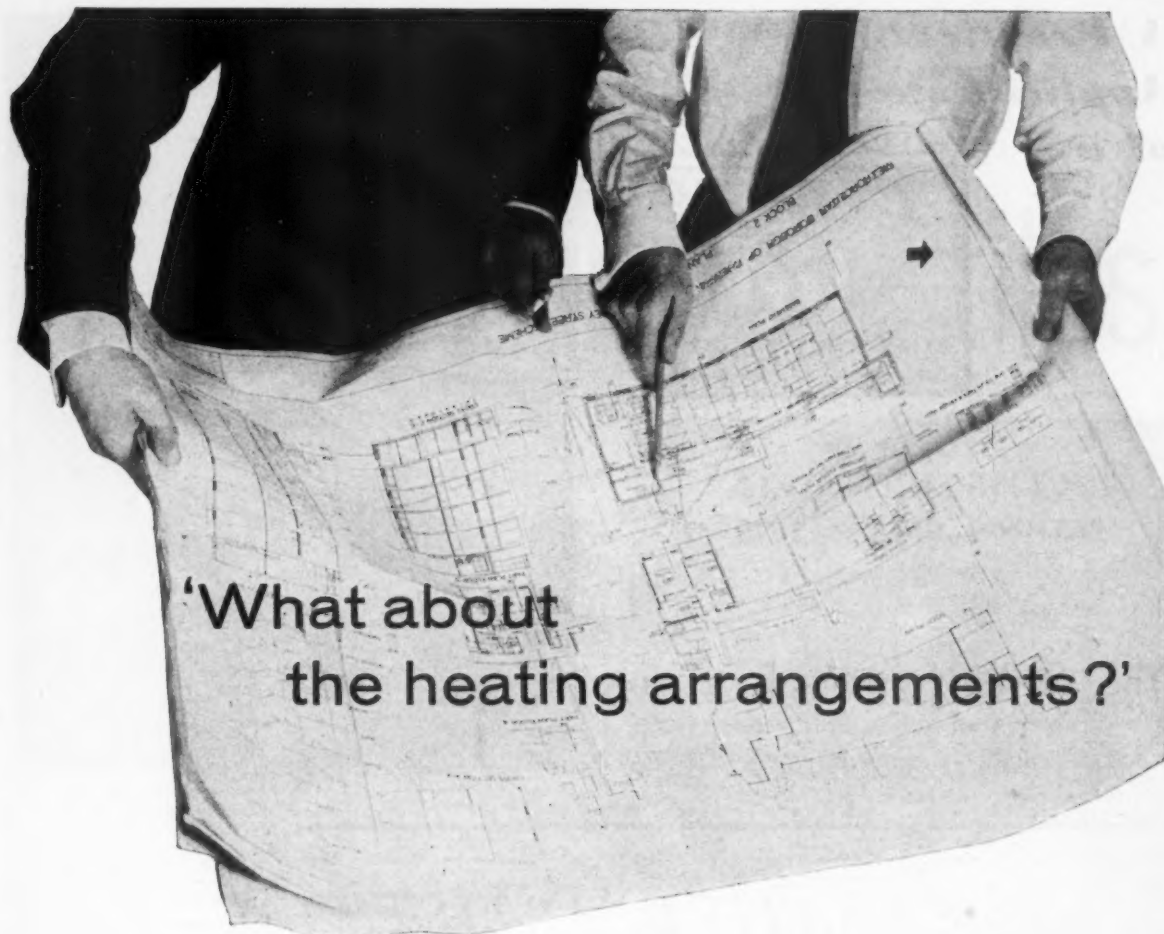


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NAIRN

Vinyl tiles



The cafeteria at 'Hilltop', combined public house and community-centre at Hatfield New Town, Herts. The architects were Brett, Boyd and Bosanquet; the floorcovering which they specified was Nairn Vinyl tiles. Interior designer: HULME CHADWICK. Flooring contractors:

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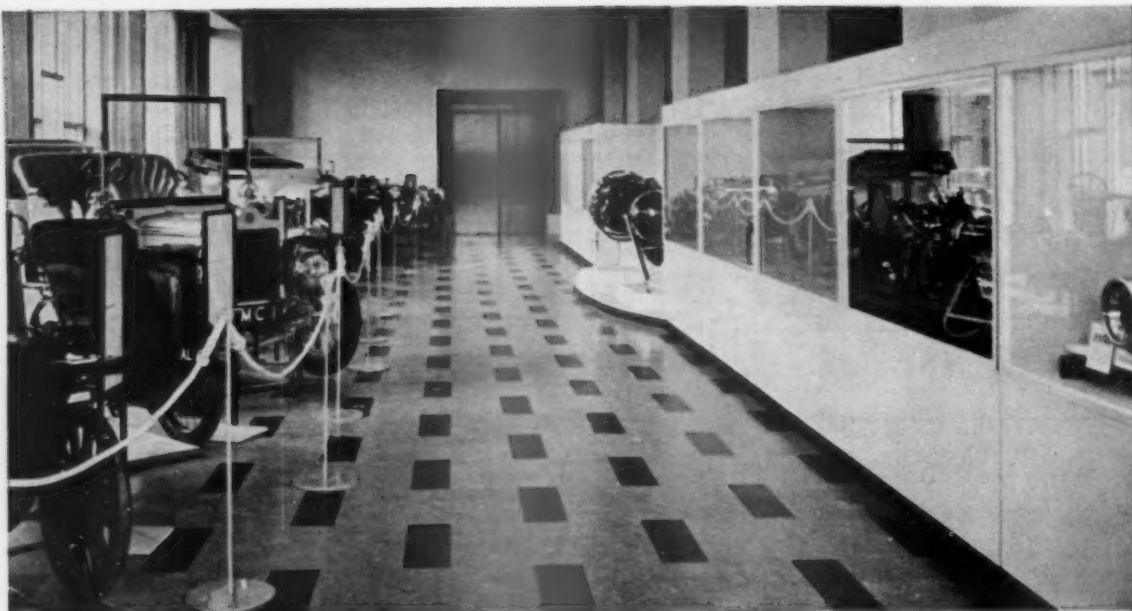
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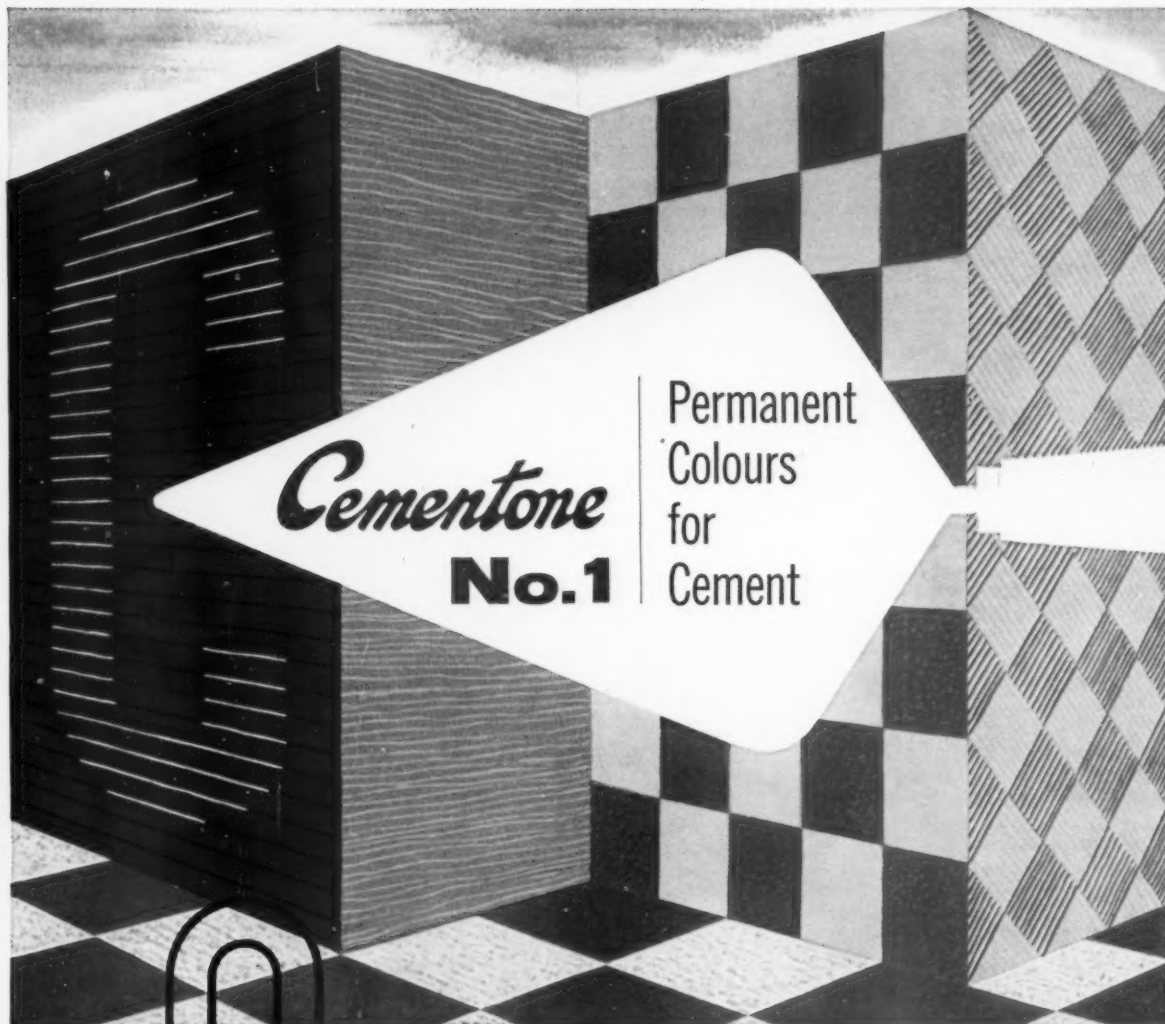
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Britain as host

THE Sixth Congress of the International Union of Architects will take place in London next July. Preparations are already well under way and it is now time for every architect to think of what personal contribution he can make to its success.

Since CIAM virtually extinguished itself, the IUA has been the main vehicle for personal contact between the architects of different countries. Its biennial congresses make it possible for architects to renew old acquaintances and make new ones. They also provide a most valuable forum for the interchange of new ideas.

Valuable as it is to read about achievements in other countries and even to inspect them on the spot, true progress can come only by discussion and joint study of problems which occur in different forms to architects all over the world.

The theme next year is the impact of new techniques and materials on architecture. It could hardly be more opportune at a time when technical possibilities are expanding at a rate which taxes the architect's capacity as a designer to control them.

Professor Nervi, who will give one of the three papers, believes that architects 'should take a passionate interest in details of technique and construction' to be able to use the already enormous possibilities of today and to prepare themselves for the even greater possibilities of the future. This may well set the tone of the whole congress.

* * *

What have we to show in the way of new techniques? Fortunately this country need not be ashamed of its achievements, as its recent success in the Milan Triennale has shown. In schools and housing we are well in the forefront and, in other fields as well, there is plenty to show the visitors. They may well be interested too in our wealth of old buildings, and our parks and countryside which still retain an infinite variety of small-scale perfections almost unknown in other countries.

Official tours to places as near as the New Towns and as far afield as Wales and Scotland are to be laid on, but there is nothing to equal being taken round personally by an intelligent and perceptive local inhabitant. Anyone who has made architectural trips abroad knows of the almost embarrassingly lavish hospitality showered on the visitors. The Congress will be the time to repay*.

On the Cover: Factory
at Haverhill

F

*Offers of help to The Organizing Secretary, VIth Congress of the IUA, RIBA.

Competition by tender

It is good to see that the RIBA has taken action on the growing scandal of the methods being adopted by many provincial towns in the disposal of their valuable central area sites. The *A & BN* pointed out in a leader, as long ago as last February, that this was not so much urban renewal as urban betrayal.

In a two-page broadsheet sent to all local authorities, the RIBA points out that the authorities have two aims which may be mutually incompatible: that of securing the best possible financial return and that of achieving a major civic improvement.

Instead of the free-for-all auctions which have been taking place, the RIBA suggests that before anything is done, a comprehensive master plan should be prepared, based on a proper study of the planning problems of the area. The authority could employ either its own architect if it had one, or a private consultant, but in either case there should be close collaboration with the planning authority and consultation with financial and commercial advisers.

Alternatively the authority could secure this master plan by promoting an architectural competition under RIBA rules. It is not made clear, however, how this could be done in a way to make it possible for all the competitors to have the benefit of the close planning, financial and commercial consultations which would be an essential basis to a practical scheme. Finally there are suggested a number of ways in which developers could then be invited to submit competitive bids, whether employing their own architects or not. The RIBA are to be congratulated on giving a lead in this matter. On the whole their document represents a brave attempt at solving a particularly intractable problem and it will be interesting to see which if any of the methods produces really first-class schemes.

Looking down on things

Considering that Holland has very largely been made by reclaiming land from the sea it is hardly surprising that the Dutch are very proud of their work. They like to look

at it themselves and they like to show it to visitors. This is particularly true of Dutch architects and planners. The I.C.C. is also proud of its work and takes a lot of trouble with visitors, but although working on a much larger scale, it is not organized nearly so well for this part of its job as either Amsterdam or Rotterdam. The town planning department of Rotterdam has a large room full of maps and models showing the development of the city from earliest times, and the gradual evolution of the present plan. The room is permanently set up for lectures and a public relations officer works full time on taking people round the city after explaining the contents of the room. In Amsterdam they go even one better. The town planning office has taken over a large disused church, the *Zuiderkerk*, and has equipped it as a splendid showroom.

* * *

In a flat country such as Holland town planning is best appreciated from above and the Dutch, in their eagerness to show off their work, have been quick to appreciate the value of high buildings for this purpose. Human beings are always children and a shop window full of working models will always draw a crowd. To look down on a busy town reduced to model size is always fascinating. Rotterdam has built a special tower, the *Euromast*, in order to show off its town planning and its harbour, which the Dutch never cease telling you is the second largest in the world. The truth of this claim, I am told, depends on the basis of calculation. The *Euromast* is a handsome concrete structure some 280ft high with a large restaurant at its summit. Open viewing platforms are combined with closed ones and both by their shape and the detailing of their handrails contrive to give a sense of security to those who cannot bear to look down from great heights. Two large lifts provide a very quick service to the top and the tower seems to be crowded all day every day. You have not seen Rotterdam until you have been up the *Euromast*. A short way out of Rotterdam at *Vlaardingen* the *Delta Hotel* designed by architect *Boks* stands over and in the river. From the bar at the top of the building you can watch the constant stream of ships passing and at night the scene is most striking largely because of the fairy light background provided by no less than three oil refineries.

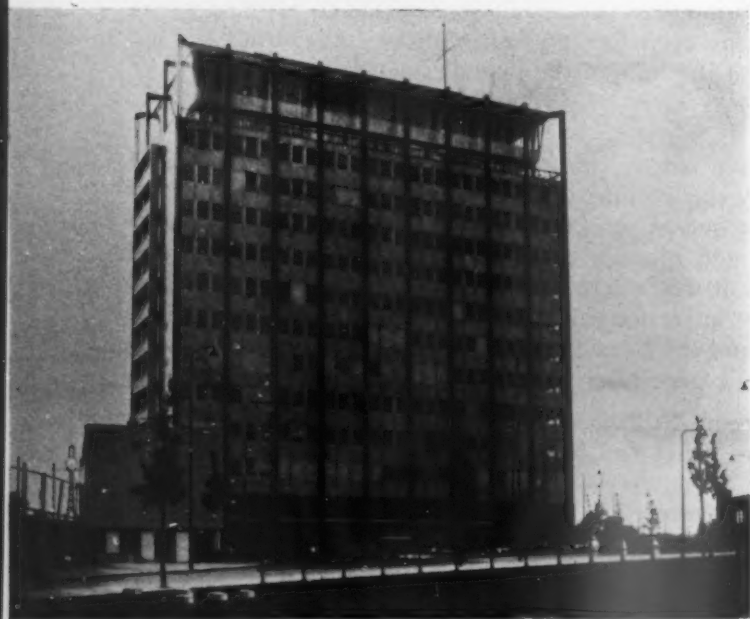
In Amsterdam *Willem Dudok*, now in his seventies, has recently completed his 14-storey block for the harbour board. This is a very lush building finished with mosaics, marble, stainless steel and rough riven stone. It is, rather surprisingly, *Dudok's* first building in Amsterdam, although he recently completed a very pleasant housing scheme in the city's new development area to the south-west. Local architects were quick to point out that *Dudok* is more revered in England than in Holland where he appears to be considered as a romantic showman. The best view of Amsterdam is to be obtained from the two-floored restaurant on top of *Dudok's* building which, standing alongside the central station, provides model train fans with an admirable view of a very busy junction to table-top scale.

Not to be outdone by this understandable passion for panorama *Jan van Ettinger*, indefatigable developer of the *Bouwcentrum*, is planning a huge new building in which to house his many enterprises in Rotterdam. It will have a tower block 15 storeys high with a restaurant on top, of course, but it will be a jump ahead of all the others for its floor will revolve. Just how fast will no doubt depend partly on the engineer and partly on the diner.

'Building Matters' again

The industry will welcome the BBC's decision to revive the radio programme 'Building Matters'. The new series which has been given a slightly better time—7.30 p.m. on

The Harbour Board Office, Amsterdam, by Willem Dudok



Network Three—began last night. Charles Crichton will again be heard regularly in the programme, which will be in a slightly different form. A team of four or five representatives of the industry will be recruited to hold unscripted discussions on selected building topics. From time to time experts will be brought into the discussion. This is just what the critics of the former series of programmes asked for. Last year the content was nearly always good but the method of putting it over was often too formal, and paid insufficient attention to the personalities involved. The producer of the new series is Vincent Alford. Bob Gunnell who produced last year is now on other work.

The IUA Congress 1961

Sir William Holford presided last week at a press conference at which Professor Robert Matthew, chairman of the organizing committee, presented the provisional programme for the sixth congress of the International Union of Architects, which is to be held in London from July 3 to 7 next year.

Although the organizers can only, at this stage, guess the numbers likely to attend, they are planning for 1,500 with an eye on possible expansion to 2,000. The congress is a once-and-for-all opportunity for British architects to act as hosts to the IUA for, with a congress every other year, and more than 40 member countries, even the youngest probationer of the RIBA is unlikely to be very active by the time our turn comes round again.

The theme of the congress, 'New techniques and materials—their impact on architecture', is a thoroughly up-to-date one. The three main papers, prepared by Henry Russell-Hitchcock (USA), Pier Luigi Nervi (Italy) and Jerzy Hryniewiecki (Poland), will be based on different aspects of the theme and will each be fully discussed. The organizers have sensibly avoided having too many papers and have provided a total of 27 hours for discussion. The congress will be divided into three discussion groups for this purpose. The congress will centre round a temporary building to be built on the site of the Dome of Discovery on the South Bank and plenary sessions will be held in the Royal Festival Hall. The temporary building which is being designed by Theo Crosby will house three exhibitions. The first, on the theme of the congress, will be prepared in this country from material supplied from the national sections of the IUA. The second will be an exhibition of the work of schools of architecture throughout the world, and the third, an international exhibition of

architectural books, organized by the National Book League. The students' work will consist of designs submitted on the scale of one for each school of architecture for a travelling demountable theatre to seat about 500.

Apart from the more serious side of the congress there will be receptions and parties and excursions and tours. It is hoped that on one evening every foreign architect will visit the home of a British architect. The planning of this very complicated but worthwhile exercise is being undertaken by the AA.

The organization of the congress, which will take the place of the normal RIBA conference, is a formidable task. The work is all the greater because London has no really suitable building for this type of international meeting. Congresses grow in number each year and London badly needs a specially-designed congress hall.

Large numbers of voluntary guide interpreters will be required and the organizers are hoping that architects who have linguists on their staffs will give them time off during the congress to help with the arrangements. For example, it is hoped to provide every coach on every excursion with an architectural guide-interpreter.

The congress has to be entirely self-supporting and this has meant that conference fees are higher than usual. Unfortunately the British Government, unlike continental governments, does not help to finance such ventures. The Cement and Concrete Association has most generously undertaken to do all the typography and printing and many other branches of the building industry are offering help. Nevertheless the organizers would be delighted to receive further offers.

Railway electrification

The first section of the Manchester to London electrification scheme was opened by the Minister of Transport, Mr. Marples, last week. It operates as far as Crewe. A letter from Arthur Ling, which appears on another page, draws attention to the wide variety of structural units used in the overhead gantries which carry the power cables on this line. Anyone who has seen the work will support Mr. Ling's complaint. Aesthetics seem to have been entirely neglected in the design of the many elements used but it is not this in itself about which Mr. Ling complains. His objection is to the variety. He finds this disturbing and points out that a sense of order brought about by repetition in this kind of obstruction reduces its powers of distraction. Mr. Ling asks whether BR have benefited from the experience of other countries. To look at the gantries one would think that our engineers had never heard of Sweden or Switzerland, let alone seen their railways. One of the worst points on the line is at Salford where a magnificent brick viaduct has been ruined because the gantries have been fixed outside the brickwork. Assuming that there was insufficient width to allow them to be put inside they could at least have been more elegantly designed. The viaduct, which was one of the great monuments of railway architecture, is now an eyesore.

Mr. Marples would not commit himself on the further electrification of this line. He is waiting for an important report on railways generally. This pause should be used by him to consider whether some improvement could not be made in the design of these gantries. Better still he could do away with them altogether. It baffles me that two branches of the same organization can make cast-iron cases one for overhead cables and one for conductor rails. If BR (Southern Region) can get away with conductor rails, why cannot BR (Midland Region) do the same? I am not interested in being told that one costs more than the other. The decoration of our country cannot be measured in terms of pounds.

ABNER

Britain's first 'drive in' restaurant, the 'Ox in Flames', opened last week on the Farnborough By-pass, Kent, to provide 'fast food American style'. Financed by three American businessmen and designed by Mountford Piggott and Partners, it is the pilot scheme for a proposed chain of 40 units to be built in the next two years



John and Mary discuss private practice — ANARISC

THEY had heard of the farm through a woman Mary had met at Young Wives' Bright Hour—a woman whose judgement they would not trust again. Not that she had purposely deceived them; rather had she been a little less than accurate in some of her claims for Hollow Farm. Admittedly the farmhouse itself was olde worlde, even to the rising damp; yes, Cornish cream was served with meals—with all meals served on a Sunday evening; there certainly was a breathtaking view across the estuary, but only for those guests prepared to stand on the toilet seat. As a restful home-from-home in the country, however, Hollow Farm had its shortcomings. The mattresses were lumpy, the sash windows rattled in their frames and half the drawers in John and Mary's room were filled with Mrs. Giles' blankets. Even the bedside cupboard was empty.

One evening, in the gap between the end of daylight and the return of Mr. Giles from the 'Fox and Goose' to switch on the auxiliary motor by which the farm was lit, Mary put down her Agatha Christie and said: 'Perhaps next year we shall be able to afford that hotel on the sands at Jersey that Mrs. Smith told us about, I forget the name of it.'

'Don't try to remember, darling, I know just where my salary cheques are going for the next six months and I have no doubt that the following six will assume the same pattern—electricity, gas and rates. And don't forget I made the mistake of ordering the coal at summer economy prices this year so there will be a bill for twenty pounds awaiting me when we return.'

'The Barratts always seem to afford a good holiday. I wonder how they do it.'

'Mr. Barratt buys and sells things Mary.'

'But you told me that when you had qualified life would be much easier. It has been much harder.'

'I was thinking of when I'm on my own, Mary.'

'But you are always talking about being on your own. When are you going to do something about it?'

'Give me time, Mary.'

'How much?'

'Mary, there are two types of quantity surveyor who set up on their own. There is the chap with five thousand pounds who can afford to take an office and do nothing for a year, living on his hump and waiting for work to come to him, and there is the type without much of a hump who must accumulate contacts and accept spare-time work from whatever source he can while still working as an assistant. I'm one of those.'

'But is it fair to Mr. Smith to work for other people during the evenings?'

'I'm not sure that it is, but there is no other way of making either enough money or enough contacts to begin my own business.'

'How much private work do you need before you make the jump?'

'In terms of money I want to feel that the day I leave Smithy I can be sure of making fifty pounds a month for the first few months. That, together with the three hundred pounds in Premium Bonds that Auntie Flo left me last year should see me off my launching pad. After that the sky is the limit. One does not consciously make targets for the distant future but after a year I should be averaging one hundred pounds a month. We can live on that.'

'You talk about pounds per month. How regular will these payments be?'

'That's the big question, Mary. For new work—bills of quantities I mean—you don't send in an account until the job starts on the site and you may not receive payment for months. This need not worry me immediately because I hope to exist for some time on small jobs—work farmed out by other quantity surveyors, quantities and final accounts for builders, measuring for sub-contractors, etc., for which I can expect to be paid fairly promptly. This is a big advantage quantity surveyors have over architects, for instance; that they can do these small jobs with relatively speedy returns. I was talking to Tony not long

ago about this and he reckons that if he set up on his own he may not be paid a shilling for two years—in fact he said he wished he were in my shoes. This must be one of the few times in the history of building that an architect has been heard to say that he envies a quantity surveyor.'

'How much would you have to pay for an office?'

'About five pounds a week. Some quantity surveyors work at home to begin with when they start in practice but if you are going to expect architects to take you seriously you need a town address. Nevertheless, I would be happy to work for a few weeks at home if I couldn't find a suitable office immediately.'

'Wouldn't the children worry you? They drive me crazy some days.'

'I could find a quiet corner.'

'You couldn't. Now if you had made that room in the roof that I saw in *Virgin and Home* last winter . . .'

'Mary, when I begin on my own we shall not even be able to afford *Virgin and Home*, let alone rooms in the roof.'

'How much capital outlay do you foresee when you start?'

'Not a lot. Paper, a few reference books, a table and a chair.'

'A typewriter?'

'I shall need a typist, of course, but I hope to begin by taking one on part time or "sharing" one in the same building. I shall also need a calculating machine and operator but until I have enough money—and work—for these I shall use an agency.'

'How do you set about getting work?'

'This is not easy. I already have promises from architects and builders that when I do start they will see what they can do, but neither they nor I know exactly when these promises can be implemented. This is my risk.'

'You can't advertise?'

'I can't put five lines in the evening paper but I am allowed to be more subtle and join a club or play golf or join a charitable organization for businessmen in which I help to raise money for those worse off than I am, and make myself a little better off in the process. I'm not much interested in the charitable organizations but I would hope to join a club and to play more golf. Incidentally I would have no difficulty in allowing architects to beat me at golf.'

'I presume that once you are established you can begin to charge more than the standard fee?'

'Good heavens, no.'

'You mean that the best quantity surveyors charge the same for their services as the worst?'

'Of course.'

'Then what incentive is there to improve?'

'The desire to do your job well.'

'I can see the reason for a minimum fee but I am very surprised that the best quantity surveyors in the country may not raise their charges.'

'The largest quantity surveyor in London is doing just the same job as the man and the boy in a country town.'

'The same job, certainly, but he must be doing it better because he has more experience. Besides, a large London office needs a good address in a modern building. Can it afford these things on your standard fees?'

'It must.'

'Then I think that if the professions don't change their standard fee principle they will cease one day to be respected.'

'And if they change their standard fee principle they will cease to be professions.'

'Perhaps the answer is to increase the standard fee.'

'That raises a number of problems. The client has to pay enough fees as it is to architects, consultants, quantity surveyors and solicitors that the thought of a larger fee to the quantity surveyor is not going to appeal to him. It would also encourage the builders who offer all-in service deals.'

'Then it seems to me that if the quantity surveyor is to

Ugly gantries on the railways

Sir.—Electrification of the country's railways involves supporting thousands of miles of electricity cable over the track. If the gantries to do this are not well designed, ugliness will be widespread. Anyone who travels southwards from Manchester will see a sample of what the rest of the country can expect.

The most obvious defect is the wide variation in structural elements to meet the different conditions under which the electricity cable has to be supported. The effect is most disturbing. Surely it should be possible to devise a common structural element in all the gantries so that repetition of them gives a sense of order and provides the least distraction from the surrounding town and countryside.

Have those responsible been given sufficient time to study the design problems involved? Have they benefited from the experience of other countries, like Switzerland and Sweden? The British Transport Commission is moving with commendable speed in these vast electrification projects but surely this should not be achieved at the expense of good design.

Yours, etc.,

ARTHUR LING.

★

Liverpool RC Cathedral

Sir.—As this competition has aroused so much interest, I think it might be worth while emulating the *Chicago Tribune* competition where all the designs were published in book form. People like Walter Gropius had competed as far as I remember and the lapse of about 30 years showed their work was merely in advance of its time, although even at the time some critics had perceived the merit, as reports of the period show. It might, in the present case, console about 200 competitors if they thought that posterity would appreciate their creations.

As regards the ancestry of the winning design, no doubt many examples were studied, but I think the Brasilia cathedral does not resemble it so closely as two buildings by Belluschi, a synagogue and a monastery, with which many architects will be familiar, but which I do not recollect having been mentioned in this connection, perhaps because they are much smaller.

In this matter of size, it would be interesting to see comparative diagrams of the proposal and similar existing buildings. For example, the internal volume seems to be about twice that of the Albert Hall, and perhaps three times that of the Pantheon in Rome. This aspect was probably a strong influence in many cases as the cost limit was a £1,000,000. As the existing crypt cost more than £500,000, and the proposed 'crypt' seems twice as big, one wonders if the assessors were quite happy about the cost factor which some took seriously. Sir Edwin Lutyens' scheme would apparently have cost £27,000,000 and does not look 27 times as big.

I know that the comparisons are not really fair owing to the different types of construction, but ventilation of

such aspects is of considerable interest, even if they only show that a modern building can be much less expensive than traditional types. It would be quite educative to know the probable rate per foot cube of Lutyens' scheme, and how many times bigger it is than the proposal. I think that perhaps some competitors may have thought that it would be just too bad if Liverpool got another scheme that had to be abandoned because of cost, after giving up Lutyens' one.

No doubt others more knowledgeable than the writer could give assurances on this aspect. Some critics seemed doubtful but the matter may have been gone into already.

Yours, etc.,

ALBERT D. CORDINER.

★

Final account

Sir.—In the article 'final account', by ANARISC, A & BN September 7, 1960, page 294, left hand column, the third paragraph from the bottom, second sentence, reads: 'We prepare the final account and total it' . . .

I should be glad if you would draw the attention of the writer to the RIBA Contract clause nine, and would ask him if, after a literal reading of the contract under clause nine, it is not the quantity surveyor's function to measure and value variations *only*, at which time he gives an opportunity to the builder to be present when measurements and notes are taken?

It may well be that the practice is developing for the quantity surveyor to prepare the final account, but that is not what the RIBA Contract requires him to do.

Yours, etc.,

'A BIRMINGHAM BUILDER'.

ANARISC replies:—'Clause nine does require only that the surveyor shall measure and value variations, giving the contractor an opportunity to be present when measurements are taken. I think the writer will agree, however, that once variations have been dealt with, the back of the final account is broken. The supplement of nominated suppliers and nominated sub-contractors, accounts, the checking of Daywork claims and of fluctuations in labour and materials are about all that is left and it has surely become fairly general practice for the quantity surveyor to do this work also because he, of the architect-builder-quantity surveyor trinity, is in the best position to do it.'

★

Lay off the architect!

Sir.—Mr. Gilbert H. Parry's letter (A & BN 24/8/60) was a very, very poor riposte, and in keeping with his first effort. Please continue to kick the pompous just where it hurts them most.

Yours, etc.,

JOHN STORM.

Anarisc continued

maintain his standards and his respect he must learn to make more of the fees that he earns at the moment. By this I mean that he must find quicker and more economical ways of producing the same results that he produces today so that he can pay higher salaries, attract better young gentlemen, and furnish waiting rooms with marble-topped tables and glossy magazines.'

At this point Mrs. Giles entered with two cups of tea and a candle, apologizing for the lack of light.

'Barometer is going back,' she said in her lovely Cornish voice, 'but we could do with rain.'

She left the room and John and Mary sipped their tea, watching the candle flicker in the draught from the sash window. Mary was obviously thinking about the demise of the professions, the possibility of doing without *Virgin and Home* for a year, and Jersey.

John stared at a framed needlework text hanging on the wall. He hadn't noticed it before. That thing about being nearer God's Heart in a garden.

'The children had a wonderful time today, Mary,' he said. 'I've just remembered the name of that hotel in Jersey. When we get home we start a piggy bank.'

The IUA Congress, London 1961

A provisional programme has been announced for the sixth congress of the International Union of Architects which will be held in London from July 3 to 7 next year.

All working sessions of the congress will take place in the mornings, the afternoons being left free for excursions and shopping. Evening events will include receptions given by the Government, the Corporation of the City of London, the LCC, London University and the Building Centre, a garden party given by the Cement and Concrete Association and a final Gala evening—probably at the RIBA. Tours are being arranged after the congress to various parts of the country for visitors from abroad who have more time to spend here.

There will be visits to Greenwich Hospital and Observatory, the Tower of London and Roehampton housing estate. One-day tours visit the new towns, Harlow, Crawley and Stevenage; Hatfield House; Knowle; Windsor Castle and Eton College; and Hampton Court. Two-day tours offer Coventry and Stratford-on-Avon; Norwich and Cambridge; or the Cotswolds and Oxford. There is one three-day tour, to Bath and the south-west of England, and two four-day tours offer a choice of North Wales or Edinburgh.

Other traditional features of the congress—an international exhibition on the theme of the congress, an international architectural book exhibition, and an exhibition of drawings submitted in competition by schools of architecture from all over the world are described by Abner who writes on p. 355.

In addition to the normal work of the congress, the Assembly, parliament of the IUA and the Executive Committee, its cabinet, will each hold several meetings culminating with the election of a new committee and a new president who will remain in office for the next two years.

The IUA has its headquarters in Paris. It has no vast secretariat but is run by one of its founders, the well-known French architect Pierre Vago, and a secretary. The Union's income is derived from national contributions and is very small. Its activities, apart from congresses, consist mainly in maintaining nine standing committees each of which meets annually. The work of the committees is controlled by the executive committee of 21. Each country has one or more seats in the Assembly, up to five, the precise number depending on the number of members in the national sections. Great Britain has four delegates. Representation on the executive is on a continental basis and not every member country is represented. As a vice-president of the Union Robert Matthew has a seat on the executive.

The official languages of the Union are English, French, Russian and Spanish. For the congress arrangements are being made for instantaneous translation and radio broadcasting in these languages, each member of the congress being provided with a radio receiver.

Farm buildings competition

A farm buildings competition was announced by the Country Landowners' Association yesterday. The sponsors ask for a milking parlour system using a new building or adapting an old one, and the building must be completed and in use by the closing date on December 30. Buildings constructed or modified since 1954 are eligible. There are prizes of £150, £75 and £50, five prizes of £5 each, and a special prize for the best entry by a member of the CLA. The judges are P. Dunham, FRIBA; N. E. B. Elgar, FLAS; and Ted Owens, a Somerset dairy farmer and member of the Milk Marketing Board. Further information is available from the CLA stand, No. 247, at the Dairy Show, Olympia, or from St. James's Street, S.W.1.

Prize money for property report

A prize of £25 is being offered by the Royal Institution of Chartered Surveyors for the best report on the real property market in the 12 months prior to September 30, 1960, and a forecast of the probable trends in the year following. The prize, known as the Balch-Essex prize, is open to

RICS members under 40 years of age. Closing date is September 30.

Three new towns ?

Mr. Henry Brooke, Minister of Housing and Local Government has approved Northumberland County Council's plan for a new town at North Killingworth, five miles north of Newcastle.

He is also to consider shortly sites for new towns at Skelmersdale, Lancs, and Dawley, Shropshire.

Architects in Industry group extends membership overseas

The Architects in Industry group (approved in principle by the RIBA and established to improve the standards of architecture and efficiency of architects in industry and commerce) is extending its membership to architects overseas. The principle aims of the group are:—

(1) To promote interest in industrial architecture and to encourage the increased use of architects in the design and execution of industrial and commercial buildings.

(2) To present the point of view of salaried architects in industry and commerce to the RIBA and where necessary sponsor investigations of their special problems.

(3) To stimulate proper recognition of the function of salaried architects employed in industry and commerce.

(4) To facilitate the exchange of information between members and allied organizations, and to improve the quality of the services which architects can offer to industry and commerce.

During the last twelve months the group's sub-committees have been actively engaged upon the following programme of work:—1, architect's place in the Building Industry; 2, all-in service by contractors; 3, collaboration with International Union of Architects; 4, shops and stores; 5, industrial laboratories; 6, breweries and hotels; 7, the architect's place in industrial management; 8, industrial welfare buildings; 9, factory building studies (Building Research Station); 10, contacts abroad; 11, publicity for architects in industry and commerce.

Salaried architects abroad, therefore, who are engaged full time either in industry or commerce and who wish to take up membership of this highly important group are invited to write to Stuart Bentley, FRIBA, chief architect to the Dunlop Rubber Company Limited, Fort Dunlop, Erdington, Birmingham 24, England. Overseas subscription 10s 6d.

The monthly meetings are confined to a policy-forming

continued in next column

diary

The Building Centre

Rural Industries Bureau exhibition of craftsman-made furniture continues until October 7 (10 a.m.-5 p.m., closing 1 p.m. Saturdays).

The Design Centre

Now until October 29. Exhibition: Heating your Home. 9.30 a.m.-5.30 p.m. (until 9 p.m. Wednesdays and Thursdays). At 28 Haymarket, S.W.1.

The Faculty of Architects and Surveyors

September 28 at 6 p.m. for 6.30 p.m. Film and lecture: 'Plaster-board, its manufacture and use'. At 68 Gloucester Place, W.1.

steering committee but full meetings for members are held at quarterly intervals and a monthly report is circulated. All conferences take place at the Royal Institute of British Architects, 66 Portland Place, London, W.1.

Lanark not to employ private architects

Lanark County Council has decided to dispense with the work of about 20 private architects when current contracts to the value of £8½ million have been completed. Instead, the council will build up its own architectural department, now 19 strong, to the 30 authorized last September. A rented house will be offered as an inducement to new men and the county architect, David G. Bannerman, has said that a revision of salary scales will be necessary.

The council has started on a £13 million building programme and it is thought that the new policy will save £150,000 a year in professional fees. Councillor Hugh Brannan, leader of the Labour group on the council, commented that it was costing the council 7 per cent commission to employ private architects whereas their own department could do the work for half that amount.

Another 'face lift' for Norwich

Following the completion of the Civic Trust scheme in Magdalen Street, Norwich, a combined operation for the Market Square has been organized by the city architect and city engineer on the initiative of the town planning committee, which thought that the council should assist in the promotion of such schemes. Architects and designers involved are:—J. A. Hales, LRIBA; B. C. C. Hastings, ARIBA; J. Owen Bond & Son; N. Martin, ARIBA; E. E. Somake, DipArch, FRIBA; A. F. Scott & Sons; Feilden & Mawson, A/ARIBA; L. Ch. Velluet (teashops design manager, J. Lyons & Co. Ltd.); J. S. Doran (Hope Bros. Ltd.); Dewing & Herriott, A/ARIBA; H. L. Tuck (surveyor, Bullard & Sons Ltd., 'Sir Garnet Wolseley' public house); Berry, Crane & Noble, F/FRIBA. David Percival, BA, ARIBA, MTPI, is the city architect.

400ft building plan

Planning permission for a 400ft-high office block at Albert Embankment and Bridgefoot, Lambeth, London, S.W., has been received by London County Council. The applicants are Fitzroy, Robinson and Partners. If approved this would probably be the tallest office block in London. (St. Paul's is 370ft high and at an exhibition of 'high buildings' in London last November a model showed a 380ft building on Millbank as the tallest office block in the capital).

Fitzroy, Robinson and Partners were architects for the new BBC extensions in Portland Place and, in consultation with Sir Howard Robertson, the new building rising behind St. Martin's-in-the-Fields.

Oxford roads inquiry

A public inquiry into proposals for relief roads at Oxford will start on December 1, at the Town Hall, Oxford, with Sir Frederick Armer, chairman of the Board of Control, presiding. In 1955 when the Minister of Housing and Local Government gave his approval to the Oxford town map, he said that the city should give further consideration to the relief of traffic congestion in the city. Recently the city council asked the Minister for an inquiry into several schemes.

continued overleaf

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New offices for the British Embassy, United Kingdom missions and delegations in Washington, will be opened by Mr. Selwyn Lloyd, Chancellor of the Exchequer, on Saturday. The new building, which is next to the Embassy residence, includes 400 rooms and a conference hall, and costs £1,225,000.

It is the largest so far built overseas by the Ministry of Works. The photographs show, top, the view from Massachusetts Avenue; middle, the library from the entrance hall; and bottom, a view of the Ambassador's office



Use water on oil heater blazes, says FPA

Fires caused by portable paraffin heaters should be put out with water according to a leaflet by the Fire Protection Association. This is because the cooling of the heater is the most important factor in extinguishing a fire. Small domestic fire extinguishers are not as effective as water for fires of this type.

In a second FPA leaflet owners of unmodified drip-feed oil heaters, not marked as complying with BS 3300 introduced last March, are strongly urged to get in touch with the manufacturers who will advise on the best methods of modifying the heaters to make them safe in draughts of up to 17-18 m.p.h. the limit recommended after exhaustive tests at the Fire Research Station, which is operated jointly by the fire insurance companies and the DSIR.

Both leaflets have been prepared by a committee representing government departments, fire brigades, insurance companies, the Fire Research Station, heater manufacturers, oil companies and the FPA. Copies are obtainable free of charge from the FPA at 31/45 Gresham Street, London, E.C.2.

Space heaters as cause of fire

Detailed analysis of fire brigade reports in 1956 show that nearly half the 24,000 fires in British houses that year were due to space heating appliances, according to the 1959 report of the director for fire research, published last week (HMSO 5s).

Fire risks associated with electric cookers appear to be greater than with gas appliances for although 1,147 fires originated in gas cookers compared with 980 in electric cookers there were in 1956 three to four gas cookers in use for every electric one. The report suggests that there is a greater likelihood of food igniting in electric cookers whereas gas caused a greater proportion of the fires associated with clothing.

National fire prevention week for 1961

There is to be a national fire prevention week in 1961. It will run from October 30 to November 4 and will be organized jointly by the Fire Protection Association and the Royal Society for the Prevention of Accidents.

Solid fuel domestic heating conference

A one-day conference on modern domestic heating by solid fuel will be run by the Coal Utilisation Council at the Grand Hotel, Eastbourne, at 11.15 a.m. on Tuesday, October 11. The conference is designed for architects, builders and engineers, and three papers will be read:—1, 'Designing houses to conserve heat', by Eric L. Bird, technical research and education officer, Building Centre; 2, 'Modern appliances and methods', by W. C. Moss, technical manager of the Coal Utilisation Council; 3, 'Fuels today and tomorrow', by J. Barratt, manager, inland branch, marketing department, National Coal Board. Invitations are available from the regional manager, Coal Utilisation Council, 3 Upper Belgrave Street, London, S.W.1.

Wood rot course for the towns

A series of lectures on wood-boring insects and wood-rotting fungi is being arranged for October to March in the main towns of Great Britain and Northern Ireland. Full details are available from the organizers, the Woodworm and Dry Rot Centre, 16 Dover Street, London, W.1.

New standards ordered for first-aid men

New regulations on the qualifications of first-aid workers in factories give some indication of the standard likely to be required in the building and civil engineering industries. First-aid staff in factories employing more than 50 workers will, in future, have to be registered nurses, enrolled assistant nurses or holders of a first-aid certificate issued within the previous three years by a training organization, according to an Order made by Mr. John Hare, Minister of Labour. Training organizations designated are the St.

John Ambulance Association, the St. Andrew's Ambulance Association and the British Red Cross Society, although the chief inspector of factories may approve other schemes with comparable standards. Name and qualifications will have to be recorded and to allow firms time to bring their first-aid staffs up to standard the regulations will not come into force until July 1 next year. Until the end of December, 1962, staff who have held a first-aid certificate from a designated body within the previous 10 years will be considered properly trained.

For the moment the regulations apply only to factories, but the Ministry is working on a somewhat similar scheme for the building and civil engineering industries. It is understood that there will be consultation with the industries before an Order is issued.

Construction orders for second quarter, 1960

Contractors in Great Britain obtained orders for new work in the second quarter of this year to the value of £452 million—£21 million less than in the first quarter (according to *Economic Trends*, to be published by HMSO on September 29). Orders obtained for work for public authorities (excluding housing) in the first quarter of this year included several very large contracts, and the figure was therefore exceptionally high, particularly as orders in the second quarter tend to be reasonably low.

Casson to advise Brighton

Sir Hugh Casson has been appointed architect-consultant to Brighton Town Council to advise on three schemes submitted in competition by private developers for an 11-acre seafront site. He has been asked to report by Christmas.

House-builders' conference

The house-builders' conference this year will discuss the building of flats for sale, houses for letting, the design and standards of housing components, and aids to sales. The conference, which takes place at the Connaught Rooms, London, on Thursday, November 3, will be preceded by the annual dinner and dance of the Federation of Registered House-Builders, at the May Fair Hotel on November 2, when the Minister of Housing and Local Government, Mr. Henry Brooke, MP, will be the principal guest.

Rain held up house-building

Though the number of houses completed in Great Britain in July fell slightly—partly because of the rain—the number built in the first seven months of the year was still 14,000 more than in the same period of 1959.

In July 23,985 houses were completed, compared with 24,193 in July, 1959. Of them, 9,826 were built by public authorities and 14,159 by private enterprise. A total of 167,919 permanent homes were finished in the first seven months of 1960, compared with 154,209 in the same period of 1959.

Certificate in urban architecture

A one-year, full-time advanced course in urban architecture commences at the School of Architecture, Leicester College of Art, this month. The main object of the course, which is open to holders of a degree or diploma of a recognized School of Architecture, or registered architects, is to provide opportunities for advanced study in architecture, with particular reference to problems associated with the central area of towns and cities.

The course will involve the preparation of a design project as group study, and a written thesis as individual study. Studies will be under the direction of the head of the School of Architecture, Robert Howrie, MBE, BA(arch), FRIBA, assisted by W. L. Stuart, DA, ARIBA, DipTP, AMTP.

Professional announcements

Leslie J. Newton, FRICS, chartered quantity surveyor, 9-10 Staple Inn, London, W.C.1, has taken into partnership A. Birch, ARICS. The firm will be known as Leslie J. Newton & Partners.



Photos: John Pantlin

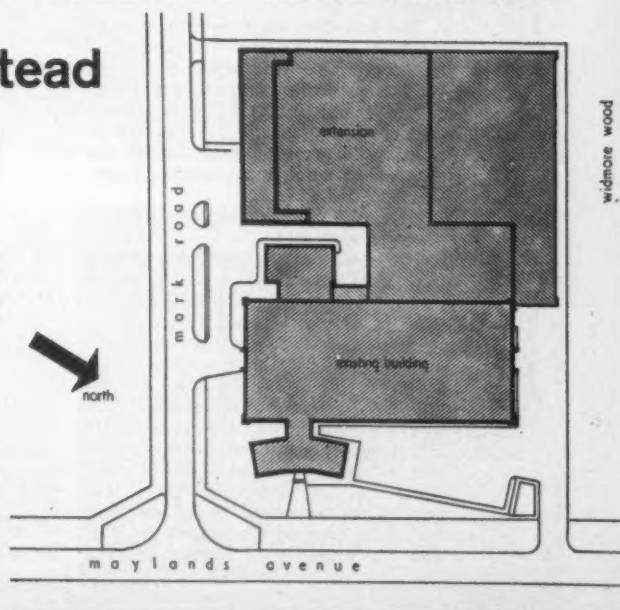


factory at Hemel Hempstead

Access Equipment Ltd., client
 James and Bywaters, architects
 W. F. Fidgen and Son, quantity surveyors
 London Ferro-Concrete Co. Ltd., engineers

The new factory for Access Equipment Ltd. comprised two contracts being separated in time by one year. For this reason the two parts are identified in this description as 'existing building' (first contract) and 'extension' (second contract). See also site plan. Cost analyses on pages 366 and 367 are similarly divided

SITE PLAN SCALE: 1:1500



THE clients, Access Equipment Ltd., manufacture and market equipment for access in all its various forms; light sectional aluminium framing and scaffolding known as "Zip-Up"; hydraulic working platforms called "Beanstalks"; various complicated stagings for access to, and overhaul of, aircraft. At present they are making plant to be built-in with the structure of multi-storey buildings to facilitate the cleaning of the external cladding.

The original basic instructions were in the form of two specific requirements.

1. Large cubic content and abnormal factory height for the testing and handling of the large telescopic structures and lower working space for the manufacture of aluminium sectional equipment, with ancillary offices and welfare facilities.

2. A building which would impress and enhance their relationships with their American and Continental clients who were frequent visitors to this country.

The first main requirement naturally broke down into a series of detailed instructions.

a. A main construction bay of minimum length of 200ft with a clear uninterrupted height of 30ft to be serviced in every part with a five ton travelling gantry crane.

b. A despatch door with a clear minimum height of 24ft.

c. Production areas with 15ft and 12ft minimum heights.

d. Means of testing hydraulic, telescopic structures up to a total height of 50ft with the facility of being able to inspect control equipment which might be either at the bottom or at the top of the fully-extended machine.

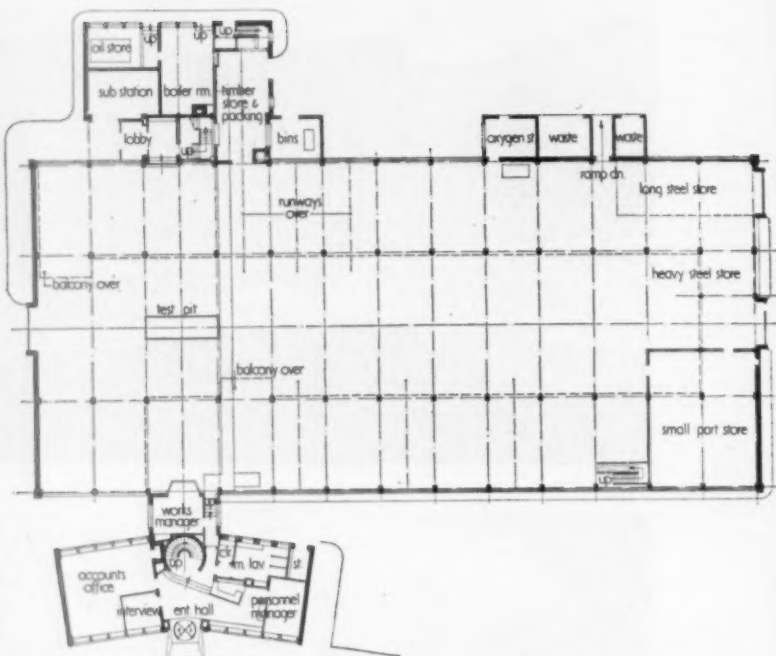
e. Complete flexibility of layout with the exception of the initial raw materials intake and the preliminary cutting of metals.

f. Complete flexibility of services, which include electricity, compressed air, water, town's gas, oxygen and argon.

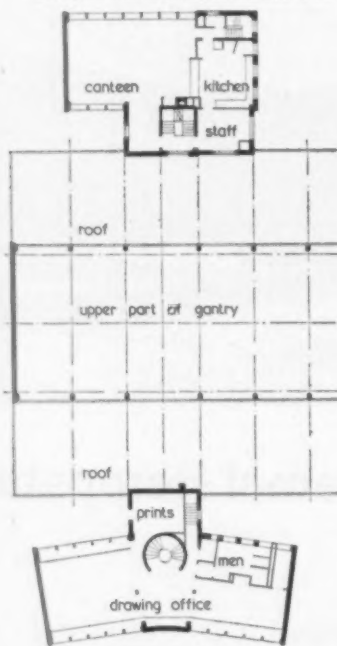
The last two requirements were of the utmost importance since the client is apt to alter his whole range of products over a comparatively short period. This, in fact, has already happened and quite a large proportion of the present products were not anticipated when the original factory was designed.

g. A minimum of maintenance in the main workshops.

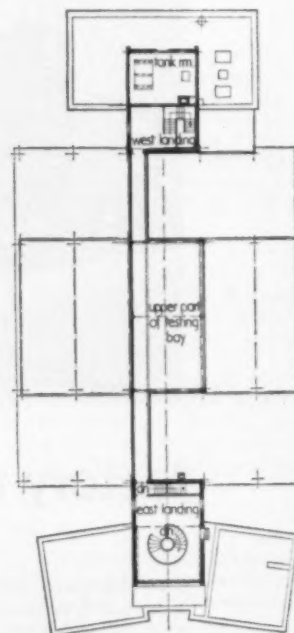
The site is at the northern end of the main industrial area of Hemel Hempstead and is bounded on two sides by roads, Maylands Avenue to the east and Mark Road to the south, on the north by land forming part of a green belt and has a western boundary common with another factory site. There was a diagonal cross fall from the north-west to the south-east of 16ft. The level of the foul sewer was comparatively high at this end of the industrial estate and this fact, coupled with the fall on the site, and the necessity of having a 200ft



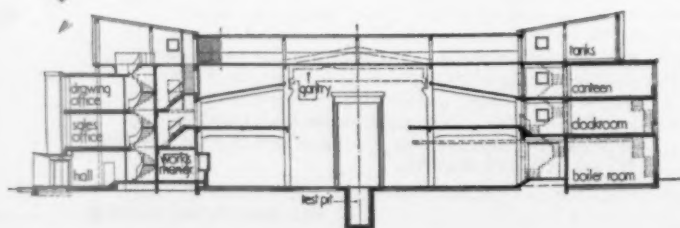
GROUND FLOOR PLAN SCALE: 1 IN = 43 FT



SECOND FLOOR
CROSS SECTION



THIRD FLOOR



run of shop at one level were the principal factors in deciding the basic circulation. This was planned so that the 200ft gantry bay should run from south to north parallel to Maylands Avenue, that the raw materials and components entry should be at the north end and that the despatch doors should be at the south end giving direct access on to Mark Road, and that the canteen and office block with the main drainage unit should also be at this end. Because of the possibility of future extensions it was decided that the canteen block, together with the boiler house and transformer house, should be to the west of the gantry bay where they would eventually be centrally placed and that the offices should be on Maylands Avenue, which is the main road running through the industrial estate. After considerable experiment it was found that the basilica-like section eventually decided upon fulfilled in every way the requirements of height and circulation which the client demanded. The amount of assembly area at the maximum stipulated height was reduced to a minimum and the increase in testing height was provided by:

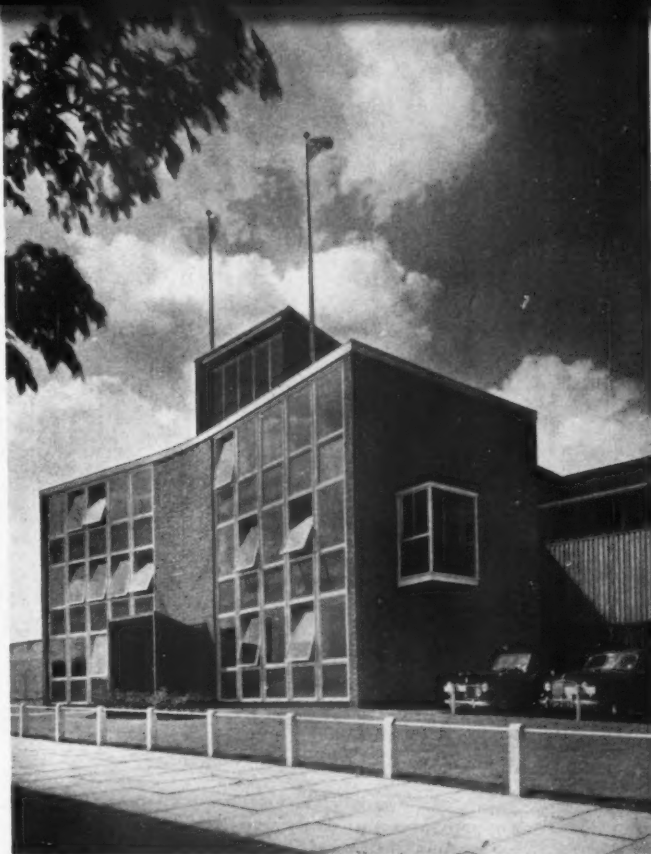
a. the bridge which connects at the highest possible level the office block and the canteen block and

b. a pit 12ft deep in the centre of the main gantry bay immediately below the bridge.

The client expressed a preference for a concrete framework and, as he had already asked for a maintenance-free main shop, a reinforced concrete frame was adopted for the whole building. Messrs. London Ferro Concrete's main works were already situated in the same industrial area and it was considered economical, in both time and money, that they should be employed as specialist sub-contractors. The short distance between the casting shop and the site enabled quite large sections to be used. The planning of the office block and the canteen block were, of necessity, very tight and it was decided that an *in situ* concrete frame would better lend itself than an attempt to use precast members. The office and the main canteen ceilings are without beams and there has already been a certain amount of subdivision carried out with comparative ease.

In view of the necessity to be able to alter services more or less at will, it was thought advisable to find a simple cladding material to the main shop which could be fixed at a distance from the main structure, enabling vertical runs of piping and conduit to be made at will from ground to first floor and thence on up to roof level without the necessity of cutting holes. This led to the eventual selection of Messrs. Robertson Thain's "Q" paneling and the use of "Q" decking for the roofing, and it has proved a great boon to be able to fix at any point on the whole of the roof or walls by the simple punching of a hole into the

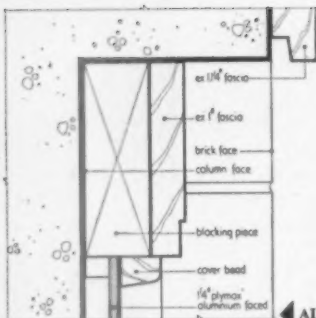
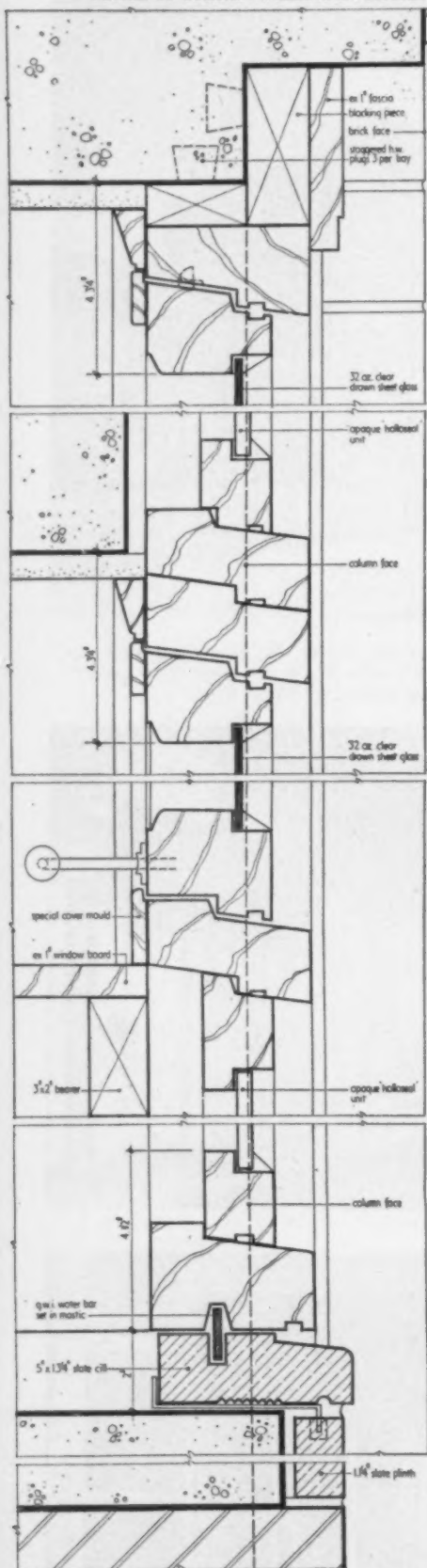
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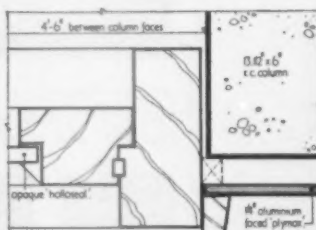
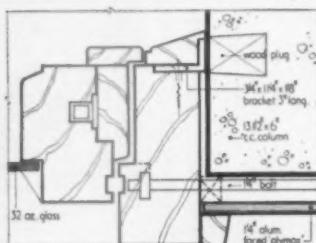
Above, office block from Maylands Avenue. The projecting glass box is part of the managing director's office. Below, two views of the main entrance. The mural in cement fondu is by Steven Sykes



DETAIL OF CURTAIN WALLING IN OFFICES



ALTERNATIVE SECTION

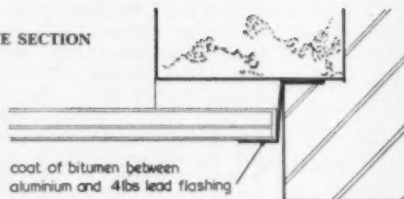
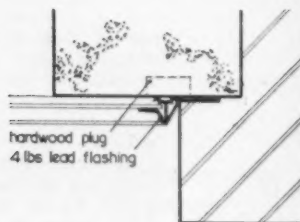
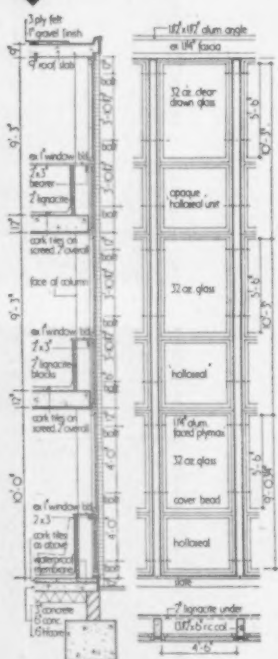


DETAILED PLAN SCALE: 1/4\"/>

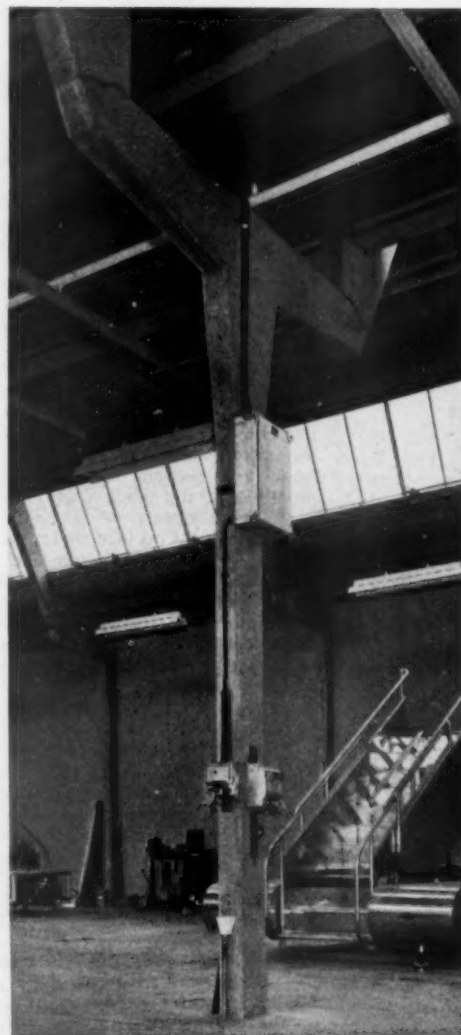
DETAILED SECTION

CURTAIN WALL TO OFFICES

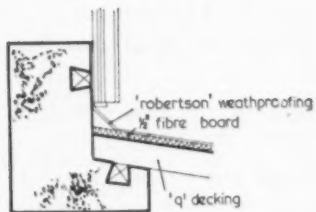
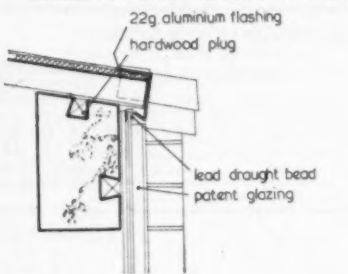
KEY SECTION AND ELEVATION
SCALE: 1 IN = 8 FT



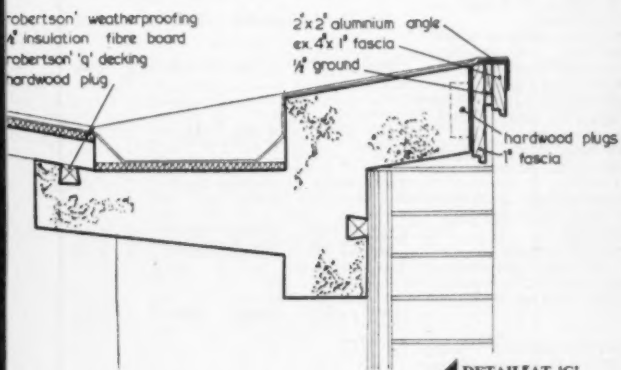
Part of the new factory extensions. Space is available for services between the tops of stanchions and the soffit of roof decking



DETAIL OF PATENT GLAZING IN FACTORY

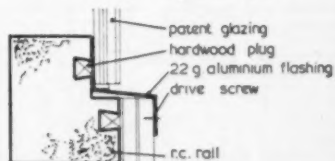
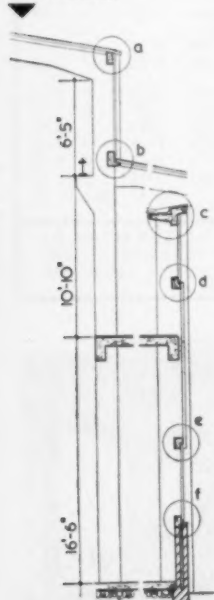


DETAIL AT 'A' AND 'B' SCALE: 1 IN = 1 FT

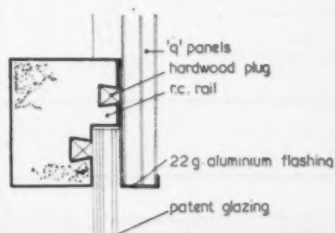


DETAIL AT 'C'

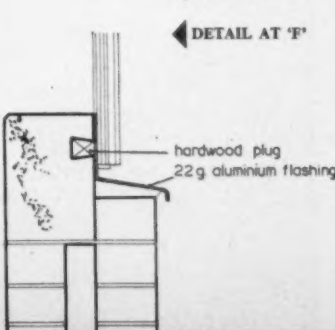
KEY SECTION



DETAIL AT 'D'



DETAIL AT 'E'



DETAIL AT 'F'

Top, south end of office block looking through works manager's office. Centre photo shows a tubular steel inspection bridge which spans the main factory area at high level. This also acts as a 'grandstand' from which the whole of the factory floor is visible. Lower photo, a view of the works entrance off Mark Road



continued from page 363

inner steel lining and the use of self-tapping screws. The prefabricated cladding has a high insulating value and, to keep down the heat losses, the whole of the fenestration is carried out in fixed patent glazing and air changes are provided by a controllable ridge vent the full length of the roof with fresh air inlets at d.p.c. level in each structural bay. The main walls of the canteen and office blocks are faced with timber curtain walling with pivot hung opening lights and double glazed coloured and figured glass panels to the fixed lights.

The whole of the precast structure was designed to include chases and holes through beams and floors so that there was every opportunity of running uninterruptedly along the underside of the first floor slab. The main service distribution is from a duct, which runs from the boiler house across the main floor of the gantry bay, connecting two main vertical shafts, one running beside the boiler stack in the canteen block and one running behind the circular staircase in the office block. Throughout the width of the main gantry bay this duct is covered with large removable precast slabs, lifted by means of flush rings by the overhead crane. Two bus-bar systems, with easily tappable connections, run the length of the edge of the first floor balconies, enabling new wiring to be run under the first floor slab or up to the roof level without any interference to existing installations.

It was the client's wish that heating should generally be by the circulation of warmed air and the main factory area is heated by two oil-fired DRAGO heaters. The office and canteen blocks are heated by means of warmed air cabinets with a small number of radiators, the heating medium being low-pressure hot water which is supplied from an oil-fired boiler.

Extension

Within a year of completion of the original factory, instructions were received to consider an extension. The development of the company was such that the underlying instruction was to use every inch of ground available and the type of equipment to be manufactured demanded a single-storey shop with good natural lighting, a minimum height of 14ft with a large proportion of floor area up to 20ft.

continued on page 368

COST ANALYSIS OF CONTRACT PRICES (ORIGINAL BUILDING)

Tender date	June 1956
Work started	August 1956
Work completed	August 1957
Tender price accepted	£130,547 12s. 5d.
Highest tender price	£149,313 0s. 0d.
Lowest tender price	£130,547 12s. 5d.
Superficial area of building	41,697 ft sq
Cube of building	859,159 ft cu

	Total £ s. d.	%	Per F.C. d.	Per F.S. s. d.
General preliminaries	1,842 7 9	1.411	0.51	0 10-60
Foundations				
Mass and reinforced core, pier foundations with R/C ground beams	11,695 15 5	8.921	3.25	5 7-03
In situ R/C to office block and canteen and precast frame to main factory	37,552 6 10	28.765	10.49	18 0-14
Superstructure				
Walls: Brickwork generally to the superstructure including external facings and internal block partitions	10,634 9 1	8.146	2.97	5 1-21
Roof: Flat and sloping coverings and patent glazing—roof lights, gutters and rainwater pipes and vertical metal cladding above brickwork	11,836 3 10	9.067	3.31	5 8-13
Windows: Timber curtain walling, patent glazed walling, borrowed lights and all slate cills	5,461 6 3	4.183	1.53	2 7-43
Finishes				
Ceilings: Acoustic tiles to offices, plaster elsewhere, fair-faced soffits in factory—steel decking is self tarnished	738 12 6	0.566	0.21	0 4-25
Doors: Flush-veneered and painted roller shutters to main bay. Aluminium entrance door—all external doors teak	3,641 2 4	2.719	1.02	1 8-96
Walls: Fair-face in factory—plaster in offices and including timber panelling in staircase and managing director's office and boarded ceiling in entrance	1,662 16 1	1.274	0.46	0 9-57
Floors: Granolithic in main shops, cork in offices, tile mosaic and terrazzo in entrance halls	5,400 0 8	4.136	1.51	2 7-08
Cupboards: And general joinery work including upholstered seats, shelving, heating cabinets, flower boxes, etc.	1,225 17 3	0.939	0.34	0 7-06
Other fittings: General ironmongery	544 12 0	0.417	0.15	0 3-13
General smith's work including balustrades, etc., ladders, cooling oil tank, internal and external signs and cloakroom equipment and safe	3,175 17 11	2.433	0.89	1 6-28
Installations				
Heating: Drago heaters in main shop. Oil-fired boiler and L.P. rods and units in offices, etc.	5,405 9 3	4.141	1.51	2 7-12
Lighting: Including all lamps and fittings	4,680 8 6	3.601	1.31	2 3-05
Plumbing: Including sanitary fittings	2,411 3 4	1.847	0.67	1 1-88
Gas: To kitchen	120 3 6	0.092	0.03	0 0-69
Electricity: Power installation including switchgear to take all foreseeable future loading	6,513 3 2	4.973	1.92	3 1-38
Drainage	3,281 15 0	2.514	0.92	1 6-89
Siteworks	6,399 16 9			
Fire-mains and hose reels	924 4 6	0.708	0.26	0 5-32
Inter-communicating telephones and clocks	968 16 6	0.742	0.27	0 5-58
Food lift (to deliver tea direct from kitchen to factory floor)	90 14 6	0.07	0.03	0 0-52
Kitchen equipment	1,353 1 5	1.036	0.27	0 7-79
General decorations	3,105 7 7	2.379	0.87	1 5-88
Test pit	861 6 6	0.660	0.24	0 4-96
Bridge	1,403 7 7	1.075	0.39	0 8-08
Electric gantry crane and runway beams	4,056 19 2	3.115	1.14	1 11-40
Total	130,547 12 5	100	36.47	62 7-41

Total cost of job	£136,947 9s. 2d.
Total cost per ft super	62s. 7-407d.
Total cost per ft cube	3s. 0-468d.



Original Building**General Contractors:****WILLIAM MOSS & SONS LTD.****Sub-contractors and suppliers:**

Bronze Hand Prints to Revolving Door: Kingsmill Metal Co. Ltd. Cloakroom Equipment: James Sieber Equipment Co. Ltd. Cork Flooring: Mundet Cork Products Ltd. Door Furniture: A. G. Roberts Ltd. Double Glazing Units: Hollow Seal Glass Co. Ltd. Electrical Installation: A. Tindall & Sons. Facing Bricks: R. Y. Ames Ltd. Food Hots: Gibbs, Bros. & Lucas Ltd. Furniture-Director's Office: Finnmar. Gantry Steelwork: Dawneys Ltd. Glazed Metal Screens to Works Entrance: C. E. Weststead Ltd. Harlequin Asphalt Flooring: Associated Asphalt Co. Ltd. House Flags: Benjamin Edginton. Illuminated Signs: Franco British Electrical Co. Ltd. Internal Signs: Compra Plastics Ltd. Leather Upholstery: Bridge of Weir Leather Co. Ltd. Linoleum Flooring: Cellulin Flooring Co. Ltd. Master Clock Controlled Time System: Dictograph Telephones Ltd. Motorised Roof Ventilators: Fenton Byrn & Co. Ltd. Nylon Grille to Canteen: G. Brady & Co. Ltd. Patent Glazing: S. Warner & Son Ltd. Plumbing: Mann & Partners Ltd. Revolving Door to Main Entrance: T. B. Colman & Son Ltd. Roller Shutters: Thornborough & Son (Manchester) Ltd. Roof Deck and Covering to Main Factory Area and Aluminium Cladding to Walls: Robertson Thain Ltd. Safes: Chatwood-Milner Ltd. Sanitary Fittings: Alfred Goslett & Co. Ltd. Slate Facings to Main Entrance Canopy: The Bow Slate & Enamel Co. Ltd. Staircase Balustrading: T. W. Palmer & Co. Ltd. Timber Windows and Curtain Walling: Tomo Trading Co. Ltd. Tubular Steel Bridge: R. Smith (Horley) Ltd.

Extensions**General Contractors:****WILLIAM MOSS & SONS LTD.****Sub-contractors and suppliers:**

Aluminium Louvered Suspended Ceilings: Harris & Sheldon (Electrical) Ltd. Automatic Fireproof Doors: Mather & Platt Ltd. Cork Flooring: The Acme Flooring & Paving Co. (1904) Ltd. Covered Bridge: R. Smith (Horley) Ltd. Door Furniture: Alfred G. Roberts Ltd. Electrical Installation: A. Tindall & Sons. Extract Equipment in Paint Spray Booth: Midland Fan Co. Ltd. Facing Bricks: R. Y. Ames Ltd. Fire Fighting Equipment: Merryweather & Sons Ltd. Food Hots: G. Brady & Co. Ltd. Furniture-Directors' Dining Room: Liberty & Co. Ltd. Glazed Screens and Doors: C. E. Weststead Ltd. Harlequin Asphalt Flooring: Associated Asphalt Co. Ltd. Illuminated Signs: Franco British Electrical Co. Ltd. Incinerators: The Incinerator Co. Ltd. Internal Telephones and Public Address System: Siemens Edison Swan Ltd. Leather Embossing: Woolnough Ltd. Master Clock Control Time System: Dictograph Telephones Ltd. Melting Furnaces Equipment: Welling & Welling Ltd. Mosaic: Zanelli (London) Ltd. Patent Glazing: Standard MacLean Ltd. Roller Shutters: Thornborough & Son (Manchester) Ltd. Roofing to Factory Area: Robertson Thain Ltd. Signwriting: Eric Hassell. Slate Cills: Bow Slate & Enamel Co. Ltd. Staircase Handrails: F. J. Lewis Ltd. Timber Windows and Curtain Walling: Tomo Trading Co. Ltd.

COST ANALYSIS OF CONTRACT PRICES (EXTENSIONS)

Tender date	January 21, 1959
Work started	March 9, 1959
Work completed	Foundry August 1959, main shop December 1959, remainder March 1960
Tender price accepted	£108,959 13s. 0d.
Highest tender price	£123,019 0s. 0d.
Lowest tender price	£108,959 13s. 0d.
Superficial area of buildings	35,045 ft sq
Cube of buildings	678,042 ft cu

	Total			Per F.C.	Per F.S.
	£	s.	d.	d.	s.
General preliminaries	1,960	0	0	1-811	0-694
Pulling down and alterations to existing building	1,186	17	0	1-096	0-420
Foundations					
Mass and R/C point and beam bases including retaining wall base and all works up to ground floor level	15,034	19	9	13-890	5-323
Superstructure					
In situ and precast R/C including peris, walls, floors, flat roofs and precast roof members	18,820	13	3	17-387	6-662
Walls: Brickwork generally including facings and copings and internal block partitions	6,893	3	1	6-368	2-440
Roof: Including pavement lights, patent roof glazing, gutters and rainwater pipes	12,936	17	9	11-951	4-579
Windows: Including timber curtain walling—fixed panels and slate infilling and cills	7,122	1	0	6-579	2-521
Finishes					
Ceilings: Acoustic tiles in offices, fair-face in factory, plaster soffits elsewhere	1,342	2	10	1-240	0-475
Doors: Including metal entrance doors, roller shutters, flush veneered or painted internal doors, external doors teak	3,238	15	8	2-992	1-146
Walls: Plaster and fair-faced brickwork principally	1,410	5	8	1-303	0-499
Floors: Cork in offices and staircases. Granolithic in factory. Polyvinyl tiles in entrance. Asphalt in cloakrooms	3,474	5	6	3-210	1-230
Cupboards: Including shelving and fittings, teak treads and handrails, laboratory and other benches, etc.	1,888	10	4	1-745	0-669
General ironmongery	576	19	0	0-533	0-204
General smith's work, including balustrades and railings, safe, cycle racks, changing room equipment and internal and external signs	2,388	19	8	2-207	0-846
Installations					
Heating: As for original building—two further Dravo heaters and L.P. heating from same boiler house with extra sections to existing boiler. New underground oil storage for Dravos	6,483	2	9	5-989	2-295
Lighting: And power installation including all bulbs and fittings	10,171	17	10	9-397	3-600
Plumbing: Including sanitary fittings	2,924	14	0	2-702	1-035
Gas: Including service to foundry	277	0	0	0-256	0-098
Drainage	3,832	9	3	3-540	1-357
Siteworks	712	17	4		
Fire-mains and hose reels	659	10	3	0-609	0-233
Intercommunicating telephones and clocks	1,025	0	0	0-947	0-363
Food lift	99	10	0	0-092	0-035
Incinerator	751	0	0	0-694	0-266
General decorations	2,198	12	10	2-031	0-778
Convecting bridge to existing building	449	8	8	0-415	0-159
Pits in connection with foundry and paint-shop	750	0	0	0-693	0-265
Deisel oil fuel tank and pump	350	0	0	0-323	0-124
Total	108,246	15	8	100	38-315
					61 9-30

1. Landing at the top of a spiral staircase in the office building. 2. Looking up the staircase. 3. Director's dining room in the extensions. 4. Drawing office, also in the extensions. 5. Managing directors' office looking towards observation window

4

5



continued from page 366

The two most urgent demands were for a paint shop and a foundry which would finally be in the middle of the completed works. In addition, greatly increased office space was required with the same demands for flexibility as before, and this office extension was itself to be capable of further extension.

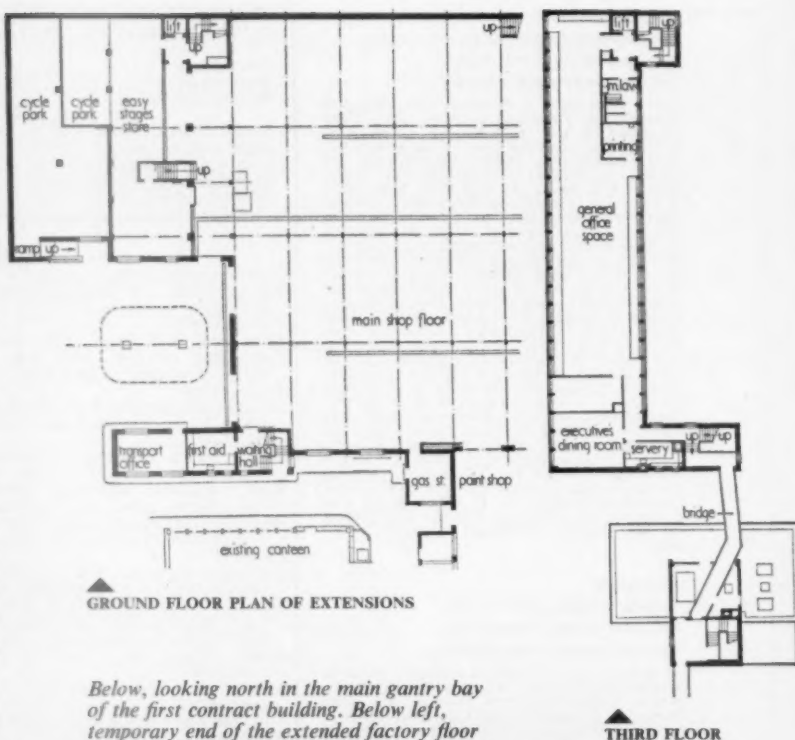
To use all the ground the new office block was placed at the upper level of the site and the new despatch doors are so arranged that they could be approached by lorries driven under the office block from the lower end of the road. The site was reduced in level so that the original ground floor level of the gantry bay would be the production level throughout the building.

Services

The services in the new single-storey extensions travel in the 1ft 6in space between the top of the precast column and the underside of the valley decking, all main feeds being run along the south wall, having entered the south-east corner via an extension to the underground duct in the existing building. A system of cold water down service and return underfloor drainage provides a re-used water cooling system enabling argon-arc welding to be carried on over the whole of the production area.

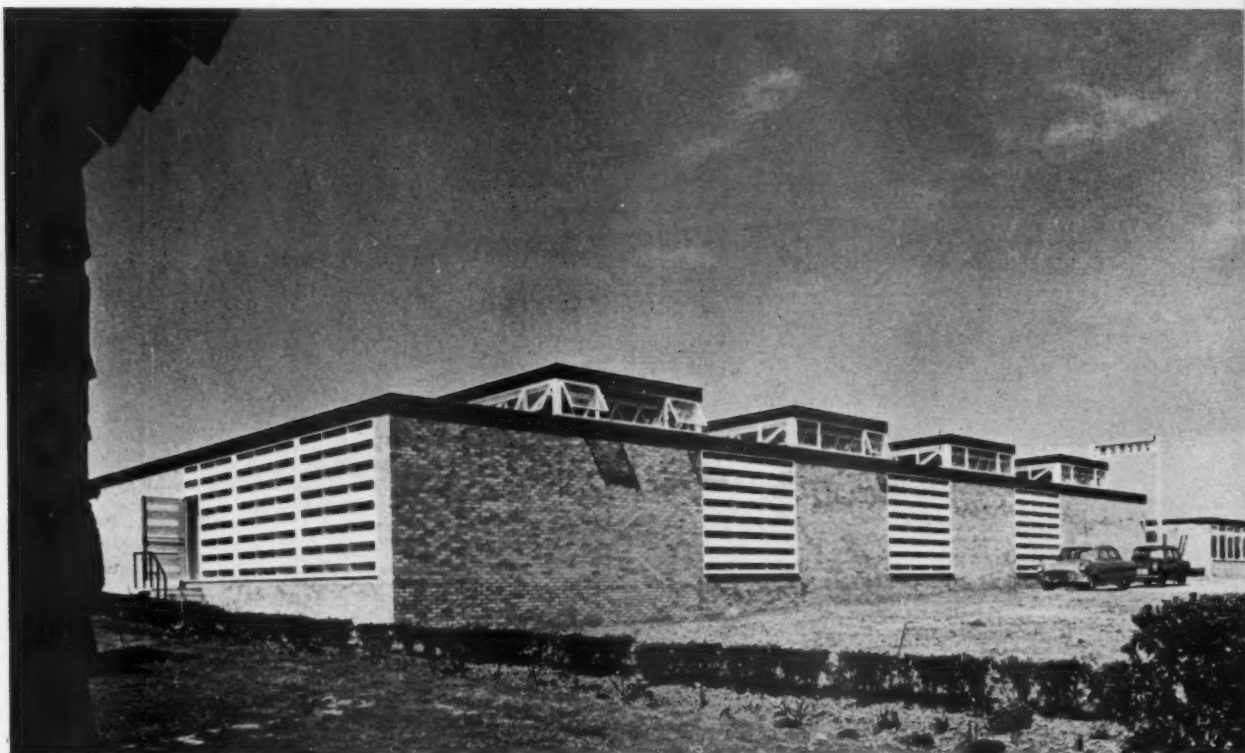
The method of heating and hot water is the same as for the existing building, new sections having been added to the existing boiler. The main feeds run in the vertical duct next to the boiler flue and cross into the new building at the second floor level via the bridge.

The foundry is all electrical and produces aluminium castings which are used in the various pieces of equipment manufactured. It is placed next to the materials intake and its products go into the same main stream supplying the production areas.



Below, looking north in the main gantry bay of the first contract building. Below left, temporary end of the extended factory floor area showing cantilevered reinforced concrete shoulders ready to receive future portal frames





Photos: Henk Snoek

factory at Haverhill

Haverhill Urban District Council, client

Hubert Bennett, architect to the London County Council. F. G. West, deputy architect to the Council

David Jenkin, senior architect general division. P. E. Jones, assistant architect, general division

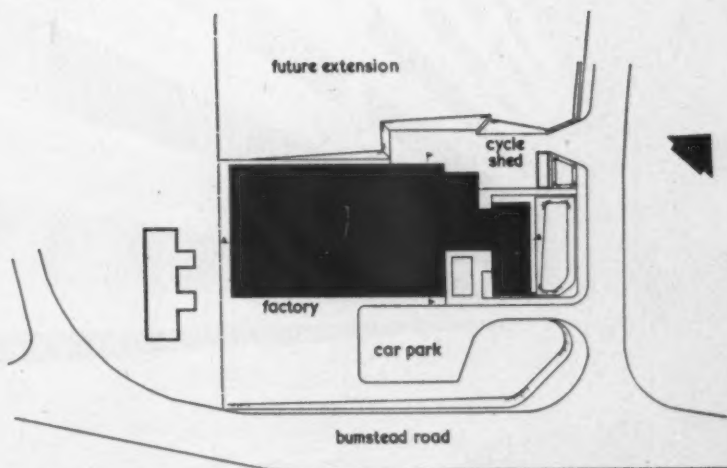
Henry White, section architect. John Milnes and Brian Thaxton, job architects

J. H. Humphreys, senior structural engineer, L.C.C.

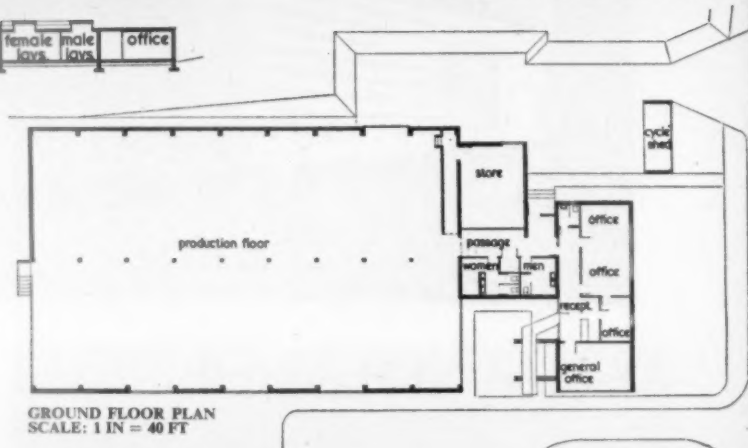
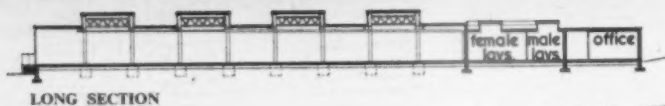
Jack W. Stockings and Clarke, quantity surveyors

J. H. Walker, housing engineer, L.C.C. architect's department

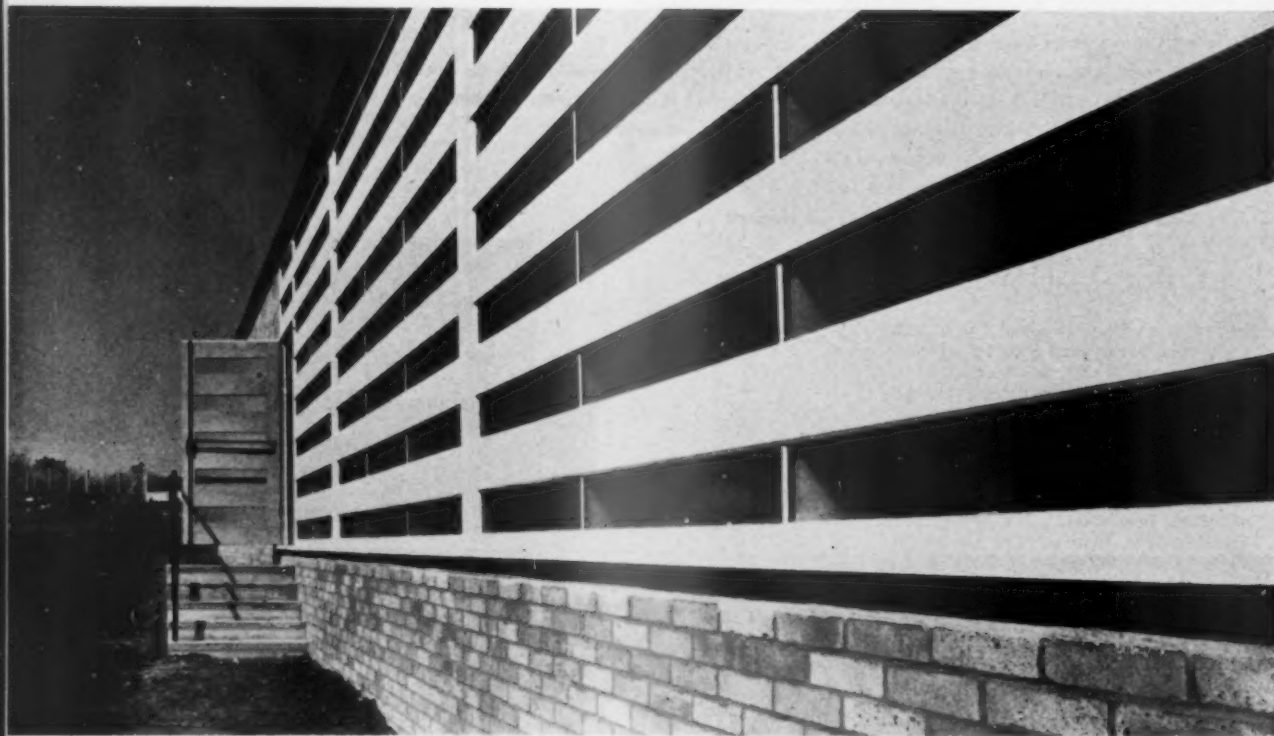
THE factory was designed for a firm producing radio and electronic components based on the moulding of glass at special temperatures—sintered glass preforms. A factory area of approximately 8,000 sq ft was required and expansion to double this size is provided for by building the rear wall in panels of two leaves of 2in block rendered externally. The system of monitor lights with timber trusses at 13ft 4in centres spanning 35ft on to central laminated timber columns is the result of much research to find an economical, attractive structure with good lighting conditions. The roof is made up of three-ply felt and 2in stramit on 7in x 2in joists. Offices and ancillary accommodation of 1,935 sq ft are provided.

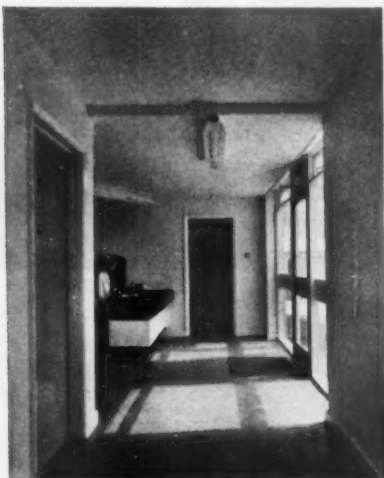


SITE PLAN



Top, the factory seen from Bumstead Road. Below and facing page, two detail photos of the structure. See also sectional drawings on facing page



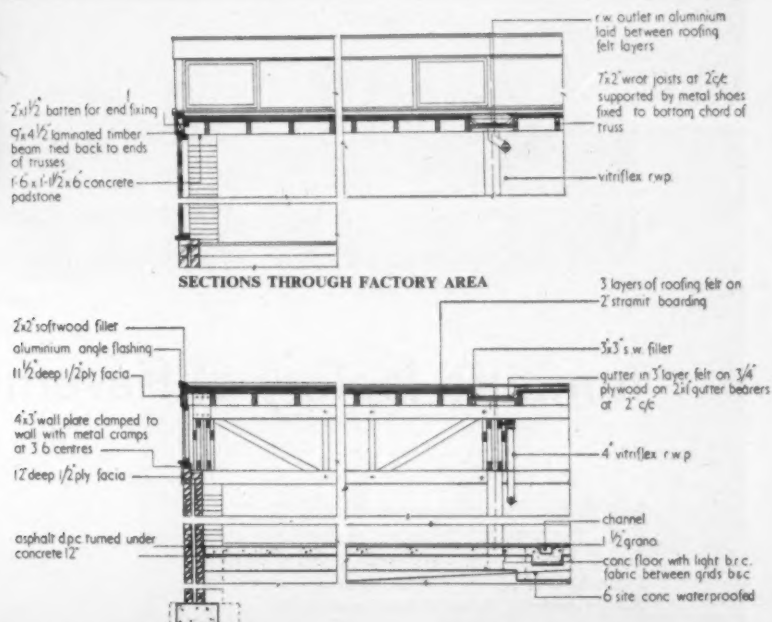


The entrance hall

COST ANALYSIS OF CONTRACT PRICES

Tender date	April 3, 1959
Work started	June 18, 1959
Work completed	March 23, 1960
Tender price accepted	£17,841
Highest tender price	£21,766
Lowest tender price	£17,841
Superficial area of buildings	10,355 sq ft
Cube of building	114,558 ft cu

Total cost of job	£17,841
Cost per ft super	£1 14s. 6d.
Cost per ft cube	3s. 1d.



General Contractors:

KERRIDGE (CAMBRIDGE) LTD.

Sub-contractors and suppliers:

Electrical Sub-contract: Eastern Electricity Board.
 Floor Tiling: Marley Tile Co. Ltd. Ironmongery:
 Lockerbie and Wilkinson. Rolling Shutter Door:
 Dennison, Kett & Co. Ltd. Roof Covering: F. McNeill
 & Co. Ltd. Sliding Doors: P. C. Henderson Ltd.
 Trusses and Roof: Woodworth Joinery Ltd.





Photos: L.C.C. Architect's Department Photographic Unit

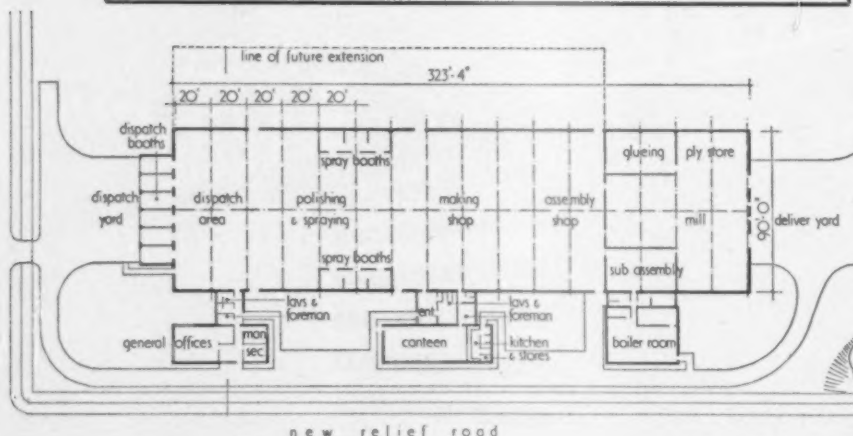
furniture factory at Haverhill

Hubert Bennett, architect to the L.C.C.
F. G. West, deputy architect to the L.C.C.
David Jenkin, senior architect, general division
Cecil Reeve, David Jenkin, assistant architects
John Goddard, John Milnes, assistants

COST ANALYSIS OF CONTRACT PRICES

Tender date	November 18, 1957
Work started	April 15, 1958
Work completed	April 13, 1959
Tender price accepted	£39,107
Highest tender price	£47,248
Lowest tender price	£39,107
Superficial area of buildings	34,661 ft sq
Cube of buildings	419,688 ft cu

Total cost of job	£39,107
Cost per ft super	£1 2s. 7d.
Cost per ft cube	1s. 10½d.



THE factory was designed by the L.C.C. architect's department for the Mount Furniture Co. Ltd., as part of the Haverhill Development. The production sequence of furniture making demanded a large free space of long proportions. Owing to the shape of the site, this long block had to be placed parallel to the new relief road. The ancillary accommodation is distributed along the length of the factory in small projection blocks to break up the long façade.

The roof is spanned with bowstring timber trusses which were found to be a very economical method of spanning 45ft in this instance. Good lighting conditions are provided by the 4ft wide skylights running the length of the factory.

The roof consists of three layers of felt on 2in stramit on 9in by 2in timber purlins on a bowstring truss. The top and bottom cord of the truss is made of laminated timber. There are ½in ply gussets and the struts are 3½in by 2in in size. Steel patent glazing is used in the roof lights. The gutters are of timber. The walls are 11in cavity brickwork (Flettons) on concrete strip foundations. The floor is made of "Coverite", a mastic asphalt material, laid on a 6in site slab.

General Contractors:

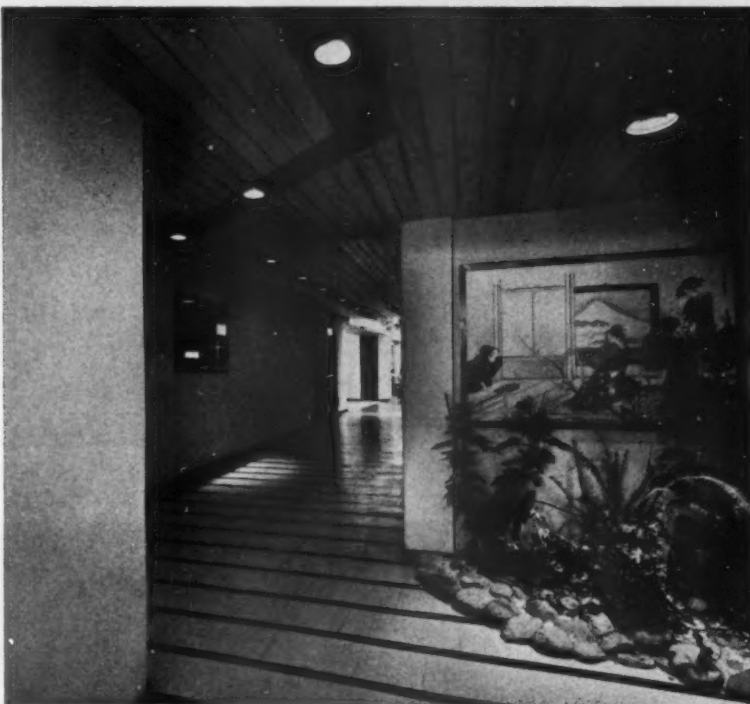
HOLMES BROTHERS

Sub-contractors and suppliers:

Concrete Roof Slabs: Concrete Ltd. Flooring: Coverite Ltd. Roof Covering: Engert and Rolfe. Roof Structure: Rainham Timber Engineering Co. Ltd. Sanitary Fittings: B. Finch & Co. Ltd. Sliding Door Gear: Geo. W. King. Steel Windows: Colchester Steel Constructional Co.

restaurant interior Dublin

Peter Kennedy Ltd., client
Sam Stephenson, architect



Top, a view of the entrance corridor with, inset, confectionery showcase. Right, looking from the shop into entrance corridor. In the foreground, planting display and photostat enlargement of Japanese print. Below, a detail of fireplace in the inner restaurant. A section of rooflights is just visible at top of photo



THE restaurant is located in the centre of Dublin, neighbouring buildings being government and commercial offices. It is situated on what was originally the rear garden of a Georgian house facing on to St. Stephen's Green and is entered through a retail bread and confectionery shop.

The clients, Peter Kennedy Limited, one of the largest firms of bakers and confectioners in Ireland, required their restaurant to be redecorated. They had few preconceived ideas and gave the architect a relatively free hand.

The original building had two very high halls completely lacking in intimacy or human scale. The existing

wall and ceiling surfaces were cream-painted hardwall plaster and wall-board. In the redecoration scheme it was felt desirable to create an atmosphere suggestive of good plain food which would be acceptable to the usual customers—civil servants and office staff. Accordingly, simple and natural materials were used.

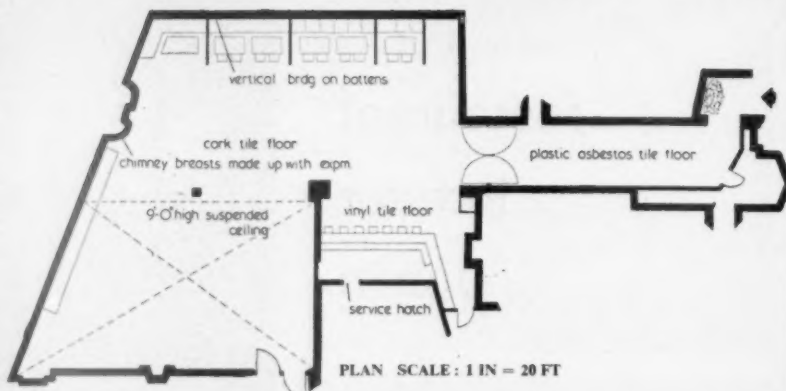
The existing walls had been decorated with "willow pattern" murals and in the redecoration scheme the architect felt that this theme could be developed into a more positive Japanese influence. Several photo enlargements of Japanese prints by Hockasi and Utamaro (from the

continued on page 374

continued from page 373

Chester Beatty collection) were used as decorative panels. The existing walls and ceiling were covered with $\frac{1}{2}$ in T. G. & V. deal matchboarding treated with brown "Protim" as a finish. This imparted to the timber a very pleasant mellowed appearance without the disadvantage of obviously staining the wood. The existing roof trusses in the main part of the restaurant were painted black. The entire area of the rooflight was covered with an untreated slatted ceiling. This gave a very pleasant diffused light and avoided the direct rays of the sun penetrating to the interior of the restaurant. The wall adjoining the fireplaces was stripped of plaster and wallboard and the original stonework exposed, repointed and painted white. The existing fireplace in the main restaurant area was small, rustic red brick completely out of scale with the rest of the room. A large false breast was built up of expanded metal and buttered with a lime gauged mortar into which were pressed selected sea-shore pebbles about 2-3 in in diameter.

In the inner part of the restaurant, which originally was similar in section to the main part, it was decided to lower the ceiling to provide a contrast. The ceiling was sheathed in $\frac{1}{2}$ in deal matchboarding as on the walls into which were inserted 2 ft-deep hexagonal rooflights to reduce the glare from the skylight above the suspended ceiling. The artificial illumination for night-time is situated above these.

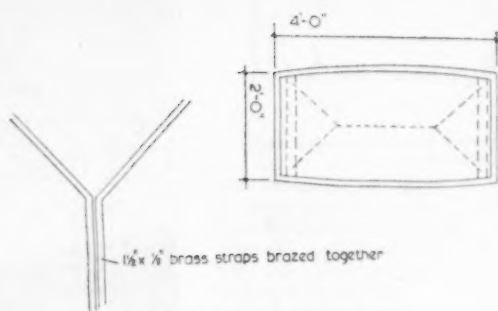
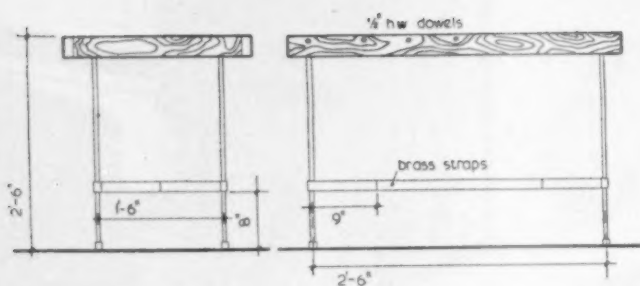


Above, the restaurant prior to conversion (compare with lower photo facing page). Below, a general view of the inner part of the restaurant showing the suspended ceiling and rooflights



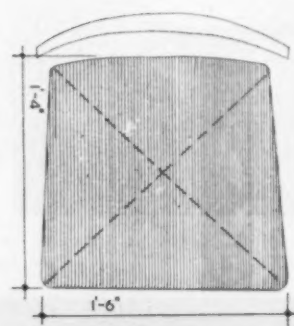
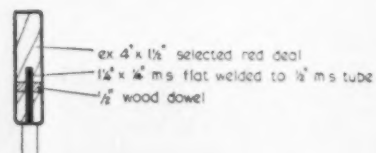
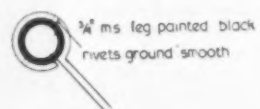
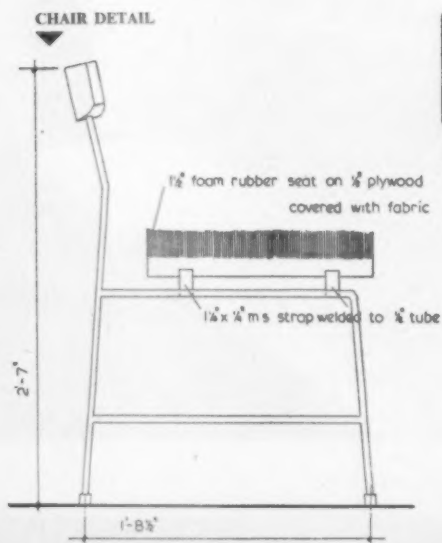
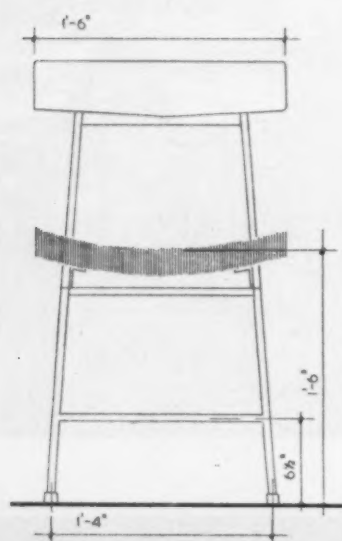
Right, the restaurant seen from entrance doors. A detail of the table and chairs is shown below. The table has steel tube legs, brass underframe and white formica top with deal edging. The chair has a polished red deal backrest, the seat being foam rubber on a plywood base covered with kingfisher blue synthetic fabric





Below left, detail of finishes and fittings. Right, detail of sliding dividers with fireplace in background

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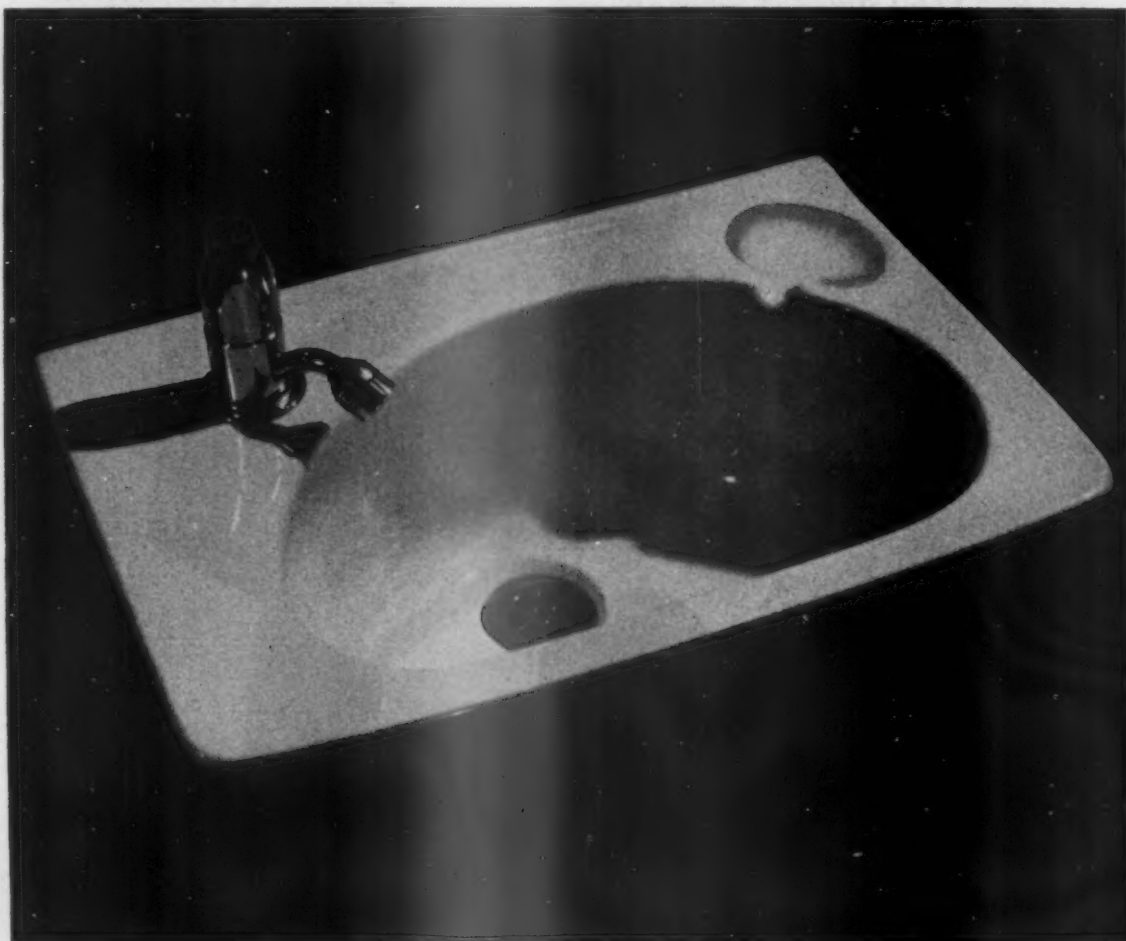


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Architects' Working Details. Vol. 6.

Edited by D. A. C. A. Boyne and Lance Wright.
Architectural Press Ltd. 25s.

THE sixth piece of this "perpetuum mobile" is different from the other parts in that the content is entirely from abroad. Of some 71 examples of contemporary detailing 21 are from Denmark, 11 from Germany, eight from Holland, seven from Italy and six from Canada and U.S.A. Possibly there is no particular significance in the large number from Denmark, as they may have been easier to weedle out of the architects, but certainly the Scandinavian detailing, or more probably the materials and technical methods used are more akin to our own and so seem more immediately relevant.

The American examples are full of "bits and pieces" of metal, packed with gaskets, mastic, etc., in fact, are engineering jobs, incidentally full of cold bridges. Perhaps this shows the measure of machine tooling of their building industry and reflects the size of the jobs which allows large orders of special sections.

The Italian examples also are disappointing. The clean detailing seems to go to extremes; prudent precautions are refined away completely. This may be one of the most important lessons; the excellence of the continental detailing depends upon refining and refining again, which in turn depends upon a high quality of finish; a finish which is beyond what is normally possible in Britain, or beyond what is considered reasonable to expect. Should we be more fussy about the finish?

Some of the most interesting details are of staircase balustrades as they show attempts to solve the "function-design" problems involved. Several ingenious methods of avoiding contact of the balustrades with the top surface of steps are shown also examples of overcoming the problem of the changes in vertical plane where there is only a very small well. Here are the famous details of cranked metal strings of small section, which, completely misunderstood by students, have caused examiners to get wild with rage.

What is the validity of exhibiting these foreign details? Certainly it is dangerous to use this as a pattern book. But it should never be used in this way. The value is truly stated in the introduction, "The sensible treatment of modern materials by foreign architects, the ingenious methods of detailing used, and the skill with which æsthetic effect is achieved, are all worthy of study". These details are definitely worth study. The examples are well chosen. The draughtsmanship is good and the standard of completeness and accuracy is high, except that I cannot believe that tubular columns 10ft high can be " $\frac{1}{4}$ in o/d m.s."

D.N.

The Town and Country Planning Act, 1959

by T. J. Nardecchia and David Sullivan. Royal Institution of Chartered Surveyors. 45s.

WITH the enormous increase in population since the middle of the nineteenth century and the growing industrialization of the country the demands on land have become ever more acute. It has long been clear that some method had to be found for making reasoned decisions about the use to which land should be put; that method was found in the establishment of the machinery of Town and Country Planning. The mere technical operation of that machinery, even at its best, does not solve the problem, for its most intractable aspect is that of finance.

So difficult has the financial aspect of planning proved to be, that at least four statutory dispensations have been attempted. The most recent attempt at a partial solution forms the bulk of the Town and Country Planning Act, 1959. Many hard words have been said about earlier planning legislation but on reading the present Act a good many people must wonder what they had to complain about in earlier enactments. One glance at this Act would persuade anyone of the urgent need for guidance, both theoretical and practical.

It is this guidance that the authors attempt to give. Their method is to devote the first 10 chapters to a general survey.

This survey describes the background, explains the underlying idea behind the detailed provisions and examines some special aspects, such as the acquisition of unfit houses. This part of the book is technically well done and fairly full. It is, however, essentially a technicians' guide.

The style is rather reminiscent of lecture notes and makes somewhat uninspiring reading. Many of the passages in this part are little more than a paraphrase of the provisions of the Act. This is often helpful but a little more care might have made these sections a shade more illuminating. Thus, for example, the passages which describe arrangements for New Town areas do not shed much fresh light on the part of the Act concerned.

There then follows the text of the Act which has been extensively annotated. A very thorough job has been made of these annotations and they are, by and large, very helpful. Here again, however, the style is rather heavy. So on page 202 a passage runs, "It will be noticed that the effect weakens the relevance of development specified in a certificate to applications for permission in relation to other land, at any rate where the development so specified is development not in accordance with the development plan".

Finally, there are useful additions in the Appendixes, together with a full and satisfactory index. The whole effect is of a very thorough attempt to provide a guide to the Act. The format is convenient, the binding good but the typeface and spacing not very pleasing. All in all it is a book which is likely to prove valuable to practitioners.

F.H.B.L.

Pre-contract Practice for Architects & Quantity Surveyors by The Aqua Group. Crosby, Lockwood & Son Ltd. 12s 6d.

IF, as we know, individual quantity surveyors write admirable books on architectural practice how much better must this book be in having five surveyors writing in collaboration with five architects? The ground covered in the present publication is, however, much more limited in scope and was arrived at following informal discussions on the shortcomings of architects at a London tavern, from which the authors' pen-name of Aqua can scarcely have been derived (I gather it means A(rchitects) QUA(ntity Surveyors)).

This subject has been mulled over many times and the authors quote from the Simon Report, the Working Party Report (1950) and the Anglo-American Council on Productivity (also in 1950), all stressing the advantage to architects, clients and builders of having all decisions made, drawings prepared and subcontractors selected before a contract is signed. Paragraph 25 of the Simon Report, now 16 years old, quoted in this book might with advantage be reprinted by the RIBA in two forms, one suitable for posting to an impatient client and the other, writ large, for framing and hanging up in architects' offices as a new admonitory text.

Over a number of years the authors have worked to collect, collate and condense to brief but in very readable form practical guidance on the chosen subject. The important matter in Chapter I is the Time Schedule for pre-contract work. An example is given set out in weeks and months horizontally and the sequence of events vertically, all as in a progress chart. The subjects commence with sketch plans, followed by time allowance for clients' consideration of these (four weeks allowed in the example), then outline T.P. approval, working drawings and so on. Time schedules are not unknown in offices: they are usually inadequate and unrecorded whereas the authors intend that the agreed schedule should be printed, distributed and adhered to by consultants as well as architects and quantity surveyors.

In Chapter II the authors consider approximate estimates, cost planning and control, setting out for the first the kind of information needed. Cost-planning and cost control take up a great deal of the surveyor's time so it is questionable whether the advice he renders should be gratis. It is true that, through intelligent application, much wasted time will be avoided in subsequently paring down specifications to price but this incidentally deprives the surveyor of fees on variations. The client benefits, not the architect.

Consideration is given to the requirements in drawings and schedules, the latter always to be drawings so that prints may be made and not be bound up with the Bills, a recommendation that has proved advantageous in a number of ways. Annotated Bills are also recommended which will surely find an echo in many a builder's foreman and draughtsman frustrated in trying to find a use for some obscure item in the Bills. The selection of subcontractors is discussed with restriction in numbers advocated and, in fact, the selection being largely left to the builders on the usual arguments. Safeguards are suggested and the method is one which is already receiving a good deal of support by architects.

A complementary publication is "Specification Notes", available at 3s 9d per copy plus 5d postage. This publication is described as stationery because the idea is to use a set of these in drafting the specification for every job. There are headings for preliminaries and all trades with space alongside for writing in the appropriate notes. These on completion serve as the basis for Annotated Bills or full specification which the authors contend is on its way out.

The authors' object is to present to architects "the best organization of pre-contract work by architects for quantity surveyors". It urges the architect to set his office in order. They make out a very good case for the benefit of the muddled and the inexperienced but it is doubtful whether the book will be of much value in practice to the efficiently organized offices, of which there are quite a number. The facts are known and understood: architects even try to apply them in a loose way and might sometimes benefit by putting everything on record but if they are let down by anyone—staff, illness, strike, lock-out, consultant, printer—they have no power to compel or penalize offenders.

The specification notes in the form of stationery are comprehensive but all these devices tend to make one think that, once filled in or answered, the job is fully covered. At the end of every trade I would like to see a considerable space left, headed: "Items not included above", just to make the writer review that trade again for the little items so easily overlooked. One can elaborate these notes to one's satisfaction, no doubt, in the ample space provided against most of the headings. I would have expected to see a column headed "situation" so that the surveyor would know where, for example, t and g flooring was to be used and where square-edge. Under "painter" there is a column headed "(C) Primer" while under materials one finds "(d) Paint on metal internally". Copper, zinc, black iron, coated iron, aluminium and brass are among those which may require decoration (galvanized "metal" having its own heading) but no space is allowed to describe the treatment each of these must have.

The book is attractively presented with plastics impregnated cloth covers and plastics binding while the specification notes have paper covers and wire binding. The book has amusing sketches and a number of reproductions of commendably clear and comprehensive schedules which carry now and then those odd spelling errors which lend an air of authenticity to the reproductions—tolerance, incuded, grdde, for example. There is a useful index and good bibliography. The past-president of the RIBA and the chairman of the Quantity Surveyors' Committee of the RICS have each written forewords commending the book and its plea for efficiency in the organization of pre-contract work. Copies of the specification notes are available singly or in sets of six and 12 copies.

A. A. MACFARLANE.

A Course of Reinforced Concrete Design

by Thomas J. Bray. Chapman & Hall Ltd. 63s.

THIS 3rd edition of a well-known book has been revised to embrace the requirements of the latest code on reinforced concrete (CP114 (1957)).

The book guides a student through the theory of elastic design applied to slabs and beams and then, in a series of very short chapters, attempts to cover such diverse aspects of reinforced concrete design as foundations, tanks, roads, domes, retaining walls, arches and chimneys, to record a

few of the topics. Mention is made of the use of high tensile steel and design by the load factor method.

The book is very well presented and very readable. It contains many excellent charts which would be of use to a practising engineer but, unfortunately, the scale is often too small for direct, reliable use (e.g. a graph giving Q values). Several tables are superfluous since the same results could be obtained more readily by calculation—a graph is given for moments in uniformly loaded square footings.

There is a very good appendix on aggregates and another on shutter design, but the presentation is marred a little by the omission of one chart and some incorrect numbering of others.

The treatment of many topics is far too brief to be of more than just interest to a student. Cylindrical tanks and towers are given three-and-a-half pages, arches are given four. The provision of suitable references for further reading would have made a great difference to the value of this book.

It is doubtful whether the chapter on Chimneys serves any useful purpose. The wind forces used are not in accordance with current practice and the design method is hardly rigorous. The author recognizes this and, mentioning that the full design of chimneys is a complicated business, he restricts the use of his method to "very small cases".

Having revised his Book it is a pity that the author has chosen to restrict his subject matter on ultimate load analysis to what is, virtually, a statement of the Code.

A very strong case could be made for the book to be rewritten entirely from the point of view of ultimate load design.

The author's statement that the design of bases is usually governed by punching shear is open to question. The American code does not even recognize the possibility of such a failure. The chapter on flat slabs would have been better for the mention of frame analysis allowed under the new code.

T. CHADWICK.

Colour in Industry Today

by Robert F. Wilson. George Allen & Unwin Limited. 35s.

THE manuscript of this book was completed, after the author's death, by his son. The death of Mr. Wilson has removed a colourful personality which will always be associated with the British Colour Council. The fact that so few people devote their careers to colour make it particularly disappointing that Mr. Wilson was so divorced from the post-war developments in architectural colouring. During this post-war period the link between the aesthetics of modern art and the techniques of modern architecture has been put on a rational basis—a link that was strongly felt by Ozenfant and Le Corbusier in the 1920's. Mr. Wilson has turned his back on the work of artists, scientists and architects who have been responsible for the developments of the last 15 years, and in doing so has limited his book to a very narrow range of ideas. In fact the book reads almost as an autobiography so many references are there in the first person singular. The serious omissions might be forgiven if the author's views were either novel or amusing, but the parade of miscellaneous facts and wearisome clichés on colour add little to the knowledge of those who are likely to reach for a book on this subject.

In spite of the title, the contents are not limited to colour in factories, but there are references and indeed a chapter on colour in schools and hospitals which succeeds in ignoring current experience. The illustrations (22 out of 27 in colour) show that there is little architectural merit in the buildings on which Mr. Wilson's collaboration has been sought. This underlines the anomalous position of the colour consultant who has to make his contribution from the wings as it were. In this way his contribution to design is likely to be additive, rather than be linked to the human, technical and aesthetic aspects of the architect's work.

Those who are seeking material on colour in industry are advised to note two H.M.S.O. publications in the

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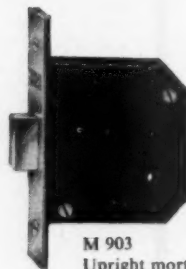
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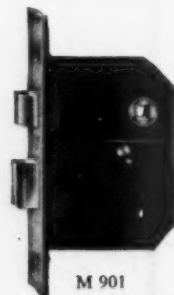
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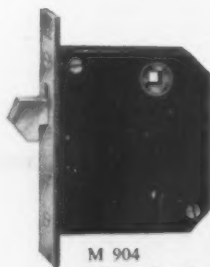
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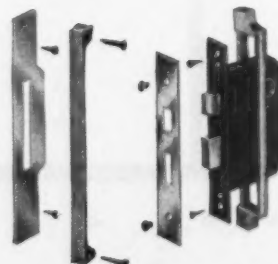
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Factory Building Studies series. One, "The Lighting of Factories", is No. 2 in the series, and the other (still with the printers) is "Colouring Factories". The bibliography in Mr. Wilson's book is as inadequate as the book itself and readers may care to note that the new edition of Building Bulletin No. 9 "Colour in Schools" (also an H.M.S.O. publication still with the printers) contains a full bibliography.

Messrs. Allen and Unwin have produced Mr. Wilson's book well, but one can't help feeling that a form with the look of such permanence and finality is the wrong one for technical information, particularly when the book starts life outdated.

D. L. MEDD.

Domestic Sanitation

by F. G. Goodin and J. Downing. The Estates Gazette Ltd. 50s.

At a time when the building industry is extended almost beyond human resources and new building development is likely to continue indefinitely, the Estates Gazette Limited has achieved a noteworthy service in the publication of "Domestic Sanitation". This new work by Goodin and Downing has exceptional qualities of presentation and will provide an authentic work of reference where such matters as drainage, water supply and sewage disposal are concerned.

Generally speaking, in matters where building construction are concerned, diagrams assume an immense importance, any one well-drawn diagram being worth a hundred or so written words. Here is a volume in which this fact has been recognized and there is an above-average coverage in this respect, a particularly pleasing feature to the student.

The book recognizes the need for an explanation of certain aspects of procedure which are generally overlooked and will be appreciated in this respect, as for example the text which provides advice in the preparation and deposit procedure for plans of proposed new buildings. In this and other ways the volume will prove particularly useful to those about to embark for the first time on the building of a home but lacking a precise knowledge of the fundamentals involved.

Whether the reader is a potential householder, student or professional practitioner, he will find a wealth of material set out which cannot fail but be of service to him. Particularly noticeable is the concise method of expression, of which a good example is the manner of listing the causes of dampness, with a subsequent analysis of the problems involved. "Domestic Sanitation" has been amply interpreted even to the extent of including a chapter on disinfection and disinfestation which may be outside the direct interest of the likely reader. The authors have seen fit to include a final chapter on rural sanitation, an excellent decision having regard to the trends of development in rural areas.

This work will prove to be a classic amongst textbooks related to the building industry.

Sanitation, Drainage and Water Supply, 6th edition.

by G. Eric Mitchell. Revised by S. E. Thrower. George Newnes Ltd. 30s.

CONCERNING the broad interpretation of the expression "sanitary engineering" quite a reasonable range of textbooks are available, and for the most part they do not become quite so obsolete in text as volumes in certain other technical fields. Nevertheless the past decade or so has produced a number of new developments in sanitary engineering and the decision to revise "Sanitation, Drainage and Water Supply", the work of the late G. Eric Mitchell, was a prudent one.

Revised by S. E. Thrower, the new version serves not only to perpetuate a useful work of reference but ensures that it retains a position as a modern work, having regard to changes in current practice. The revised volume embraces an entirely new chapter on central heating and water supply and deals with site considerations, dampness and ventila-

tion, subjects which perhaps are not strictly within the scope of the title.

In the descriptions of odour and smoke tests for drains the author might have taken the opportunity of advising the reader of the disadvantages which occur in practice with chemical testing and the difficulties experienced by even the most experienced user in obtaining confirmed results. As the revision has taken place in order to bring the work up-to-date it might have been remembered that the "sanitary inspector" in English legislation and practice has become the "public health inspector".

These of course are trifling criticisms of a book which will be of much value to students, the group for whom it is primarily intended.

It is not of course a comprehensive work on building construction, neither did the author and reviser set out to fulfil such a position, but for a modest price it does offer an acquisition to a library of material which, although fairly substantial, can be refreshed occasionally with advantage.

A.G.D.

Decoration and Furnishing

by John Wilson. B. T. Batsford Ltd. 63s.

THE blurb claims that this book is a "comprehensive and extremely practical work written by a professional for present and prospective members of the decorating and furnishing trades" and it appears, in fact, to be just that and no more. It is crammed with facts and it is perhaps churlish to look for something more.

But to an architect it is disturbing to read a book on a subject which is visually so important as this and find virtually no reference at all to the design possibilities of the various materials and methods described. Furthermore there is perhaps too much insistence on hand methods now rapidly being discarded and too little on newer methods involving the greater use of machines. For example, all the furniture joints illustrated are hand joints and the far commoner machine variations are neither shown nor referred to.

The various chapters deal with decoration, colour, wall-paper, wall and ceiling materials, glass, floors, furniture, textiles, lighting, procedure and practice. The book is likely to be a most useful compendium if used with discretion.

G.C.L.

Heating and Ventilating

by Oscar Faber. Revised and expanded by L. N. Doe. E. & F. N. Spon Ltd. 30s.

THE new revised edition of the late Doctor Oscar Faber's book on heating and ventilating will be welcome alike to students and practitioners of architecture and heating engineering. The book is admirably straightforward and clear, and deals lucidly with the matter of estimating heat losses from a building, and of designing heating and ventilating systems to maintain the best conditions of comfort for the occupants. It has been revised to keep abreast of the latest developments in the field and is a most useful introduction to the subject.

T.S.

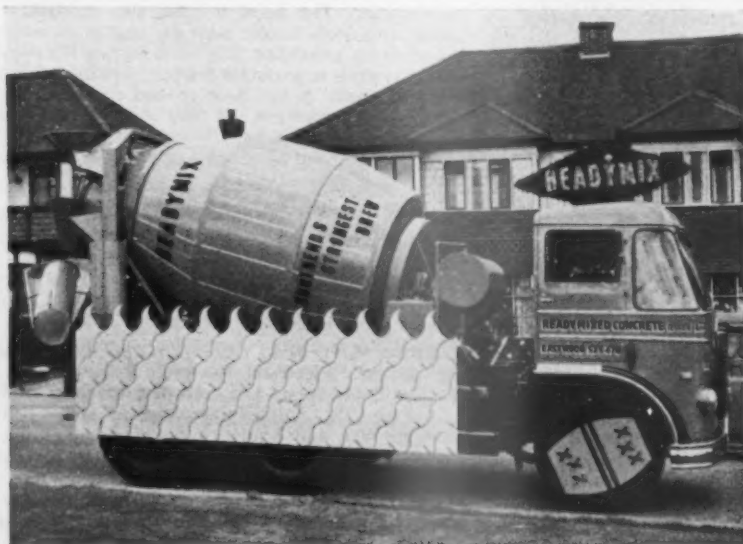
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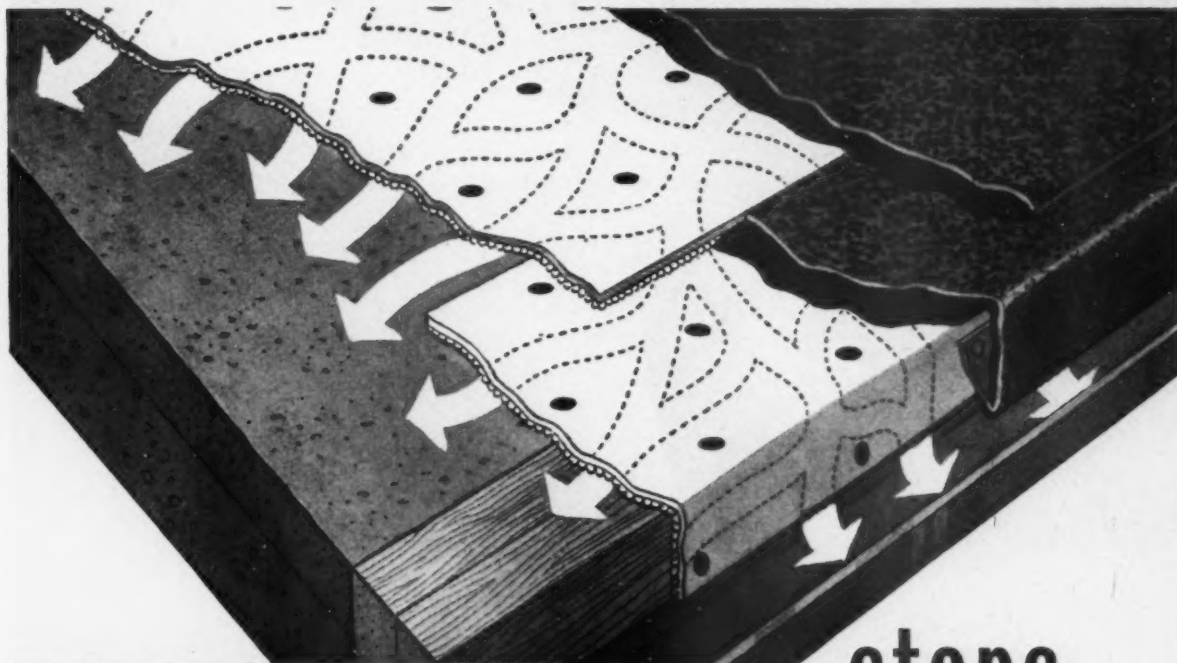
Official Architecture and Planning Year Book 1960. Edited by Robert McKown. Published by Chantry Publications Ltd. Price 15s.

Electrical Who's Who 1960-61. Sixth Edition. Compiled by the journal "Electrical Review". Published by Electrical Review Publications Ltd. and distributed by Iliffe & Sons Ltd. Price 35s. This edition contains about 9,000 entries, covering men and women in all branches of the electrical industry—supply, manufacturing, contracting, consulting, research, transport, mining and trade associations. Electrical engineers in the post office, the admiralty, ministry of supply and other government departments are also included.

- A.E.I. Lamp and Lighting Co. Ltd. have reduced the prices of their Day-light, Warm White, White 3,500 deg K fluorescent lamps and a number of their Colour Matching, Natural and Warm White Deluxe fluorescent lamps. These reductions vary from 7 to 19 per cent. Mazda Reflector fluorescent lamps have been similarly reduced in price except for the 12in 6W lamp which has been increased by 6d to 8s.
- A number of Westair dehumidifiers were recently used in the test drying out of a newly plastered house at Bishop Auckland. More than 62gal of water were extracted in 12 days, after which the house was ready for complete decoration and immediate occupation.
- The fifteenth annual report of the British Welding Research Association has just been published. Among the interesting features discussed in the report is the possibility of replacing mechanical joints by welded connections in high-pressure small-bore pipe systems.
- The George Cohen 600 Group are planning to make a rights issue of 5,000,000 new 5s shares in a two-for-five ratio. Terms of the issue are to be made known in November.
- L. Sterne & Co. Ltd., of Glasgow, the manufacturers of refrigerating machinery, are to pay an interim dividend of 7½ per cent.
- Leyland & Birmingham Rubber Co. Ltd. show a group profit, after taxation, for the year ended June 30, 1960, of £561,678, compared with the previous year's result of £492,274. A final dividend of 15 per cent is to be paid, making a total distribution of 20 per cent.
- Mr. D. G. Denoon has been appointed public relations manager of the British Insulated Callender's Cables Group.
- Taylor Woodrow Construction Ltd. are to install mechanical equipment worth about £500,000 in the new compound mill for the British Extracting Co. Ltd. of Bromborough Port, New Ferry, Birkenhead, Cheshire. Approximate value of the contract for installation is £180,000.
- Mr. J. Banks, MEng, MIEE, has been appointed chief engineer of the power cables division of British Insulated Callender's Cables Ltd.
- Ross, Courtney & Co. Ltd., makers of terminal connectors, have signed an agreement with the Thomas & Betts Co. of U.S.A. They can now manufacture and sell in Britain the complete Thomas and Betts range of loose and strip terminals and associated closing mechanisms.
- Crofts Engineers Ltd. have cut their 1960 interim dividend from 6½ per cent to 5½ per cent.
- Ashmore, Benson, Pease & Co. Ltd., of Stockton-on-Tees, have been awarded a contract by Colvilles Ltd. for the design, manufacture and erection of a third blast furnace plant at their Ravenscraig Works. The contract is valued at more than £1 million and is due for completion in October, 1962.
- The Bowater Paper Corporation are to pay an interim dividend of 5 per cent. Sales for the first half of this year are £65.4 million, compared with the 1959 figure of £55.2 million.
- Mr. N. M. Jensen, chairman of Tunnel Portland Cement, and Sir Rex Benson, of Robert Benson, Lonsdale, have resigned from the board of Caribbean Cement.
- Production of man-made fibres reached 46,650,000lb during July, a record for that month.
- Deliveries to the home market by the Rugby Portland Cement Co. Ltd. have shown a substantial increase during the first eight months of this year and it is expected that the increase in demand will continue. The company is to add a new rotary kiln, with an output of 180,000ton of cement a year, to their Southam works. It is hoped that the new kiln will be operating in about 12 months.
- Sir P. Sanders has resigned from the board of the Lightfoot Refrigeration Co. Ltd.
- Lord Tweedsmuir has been appointed a director of the Cementation Co. Ltd.
- K.G. (Holdings) and their recently acquired subsidiary, Modern Engineering Developments, show combined earnings, after deducting taxation, of £196,971, compared with last year's result of £220,080. A final dividend of 20 per cent is to be paid, making a total distribution of 32 per cent for the year.
- Olympia Ltd. show a profit for the year ended March 31, 1960, of £280,700 before deducting taxation, compared with the previous year's result of £252,329. A final dividend of 10 per cent is to be paid, making a total distribution of 15 per cent for the year.
- Way Holdings, plastering and flooring contractors, show a net profit for the year ended April 3, 1960, of £46,175, compared with the previous year's result of £77,301. An ordinary dividend of approximately 5.2 per cent is to be paid.
- Thorn Electrical Industries Ltd. show a group net profit for the year 1959/60 of £2,475,000 before taxation, an increase of nearly £570,000 compared with the previous year. The charge for tax amounted to £949,000. A dividend of 25 per cent has been approved.
- Ruston & Hornsby Ltd. show a group profit, before taxation, for the year ended March 31, 1960, of £986,935. This represents an increase of £5,990 on the previous year's result. An ordinary dividend of 9 per cent, less tax, has been approved.
- Vickers-Armstrongs (Engineers) and Racine Hydraulics and Machinery Inc. of Racine, Wisconsin, U.S.A., have agreed to develop jointly their hydraulic interests and manufacture and sell each other's hydraulic products on a world-wide basis.
- Sir W. D. Morgan has been appointed a director of Winget Ltd.

The latest addition to the fleet of Ready Mixed Concrete Ltd. is a 6 cu yd capacity Ransome & Rapier mixing drum mounted on a Foden six-wheel chassis. The unit incorporates the latest type of hydrostatic drive invented and developed by Ready Mixed Concrete Ltd.





Ruber vent

Patent applied for

Trade Mark Registered

ISOLATED & VENTILATED BUILT-UP ROOF

stops roof blisters

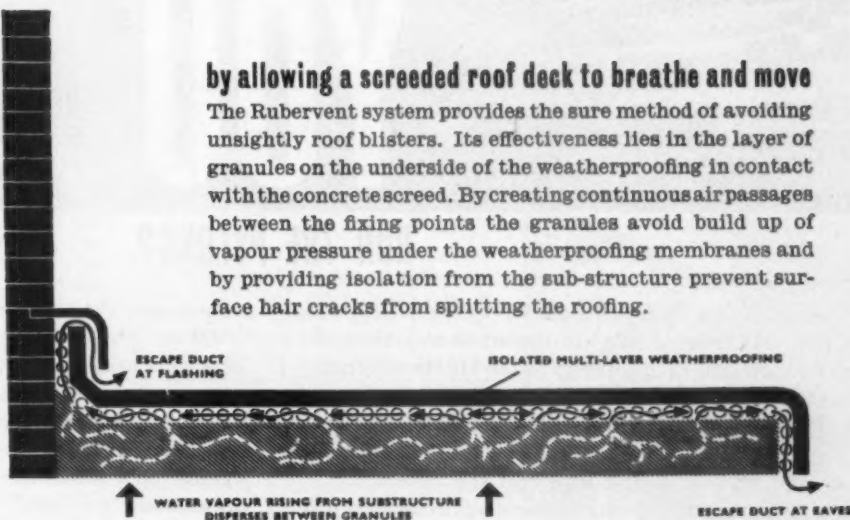


Fixing and workmanship

Ruber vent is available only when supplied and fixed by the Contract Division of The Ruberoid Company. A range of specifications is available for flat, sloping and concrete shell roofs.

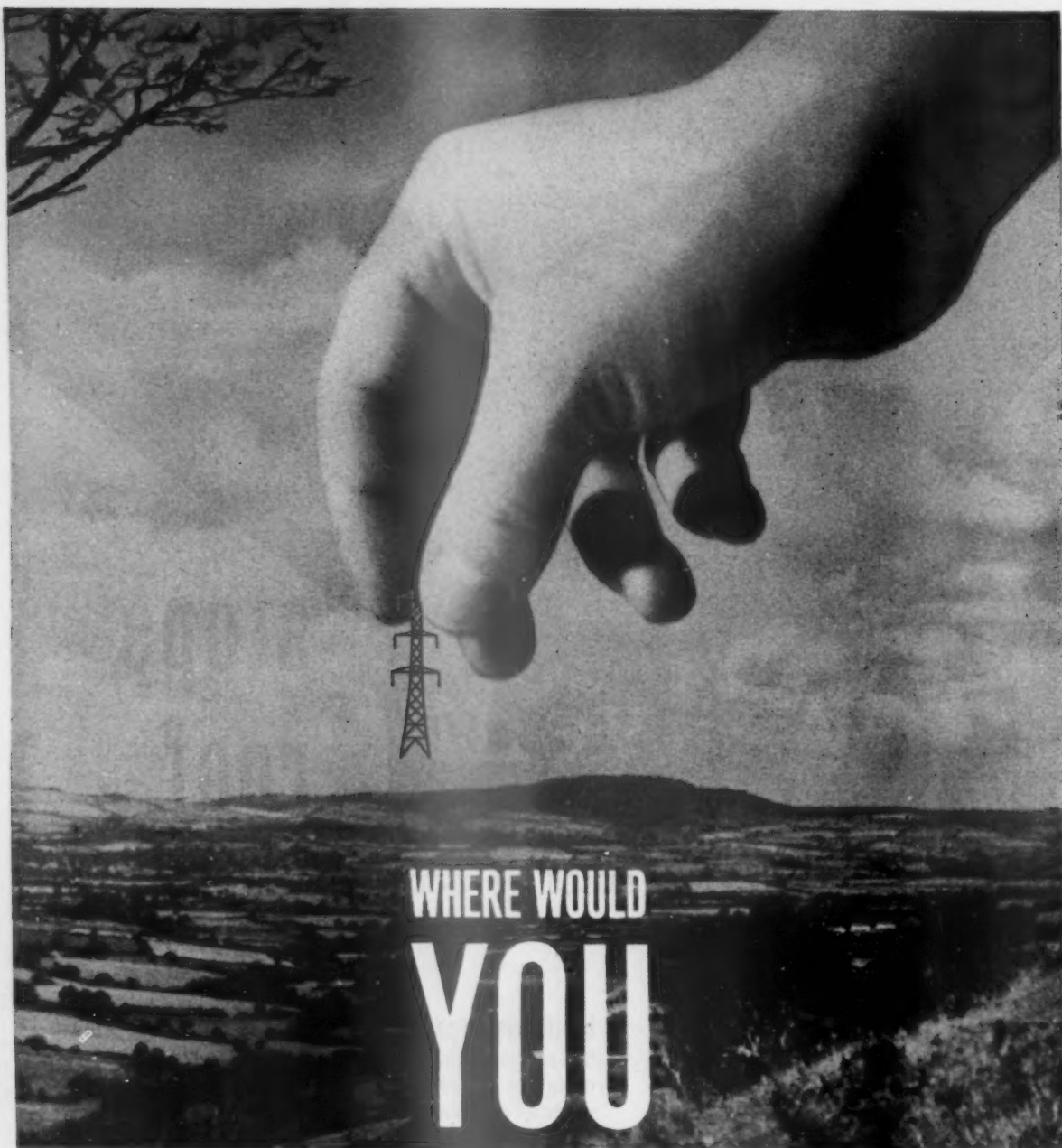
by allowing a screeded roof deck to breathe and move

The Ruber vent system provides the sure method of avoiding unsightly roof blisters. Its effectiveness lies in the layer of granules on the underside of the weatherproofing in contact with the concrete screed. By creating continuous air passages between the fixing points the granules avoid build up of vapour pressure under the weatherproofing membranes and by providing isolation from the sub-structure prevent surface hair cracks from splitting the roofing.



For full details and model, write or telephone:

THE RUBEROID COMPANY LIMITED, 694 COMMONWEALTH HOUSE, 1-19, NEW OXFORD STREET, LONDON, W.C.1. TEL: HOLBORN 8601 (5 LINES) RV6137



WHERE WOULD YOU

RUN THE PYLONS?

They still live by lamp-light up in the hills. Soon, a new transmission line will thread its way along the valley, bringing the people up on the hill the electricity they've been wanting.

Pylons down here will mean a better life up there. But how will the people of the valley feel about the pylons? And the people who visit the valley?

The Central Electricity Generating Board are just as concerned about this as they are about bringing in the power. For the nation has charged the Board with a double duty. Not only to maintain an efficient, economical electricity supply, but also

to preserve the amenities of the country as they go.

Often, these duties conflict. Again and again problems arise which seem impossible to solve. But always, they seek to achieve a balance. A balance between the need to answer demands for more power and the need to preserve the beauty, the intangible values, of a landscape, a village, the still unspoilt approaches to a town.

THE CENTRAL ELECTRICITY GENERATING BOARD



In this feature are reviewed new lines introduced to the building industry for the first time and additions or improvements to existing ones. Any advantages claimed for a product are from information supplied by the manufacturer

Eye-screens for Street Lighting Fittings (A)

A new type of translucent eye-screen moulded in Rigidex high-density polyethylene is being used on street lighting fittings in Liverpool and district. It can be attached to reflectors of pendant and column lighting fittings to prevent glare without significantly reducing illumination over a wide area. The screen is an 11in dia hollow cylinder with an inclined flange which enables it to be held in place either by three retaining screws or by spring steel clips. It is rigid, virtually unbreakable and will neither splinter nor chip. Other claims for the new screen are that it is unaffected by changes in ambient temperature, does not absorb moisture and is resistant to chemicals, oils, greases and solvents, and to corrosive atmospheres. It is smooth and impervious, and easy to clean. Weight: 4½oz.

Hygiene Plastics Ltd., The Kirkby Industrial Estate, Liverpool.
Readers' Information Service
Ref. A. 21/9/60.

Street Lighting Equipment (B)

Holophane introduced three new street lighting units at the recent Folkestone conference of the Association of Public Lighting Engineers. The first of these is the Hastings wall mounting unit (illustration, left) with prismatic refractor bowl providing two-way non-axial light distribution for mounting heights of 25/30ft above pavement level. It is available for use with either 400W or 250W MBF/U lamps. The other two newcomers are additions to the Bi-way series of bowl refractors. They have been developed to provide improved performance with the following light sources—No. 2/4140F with 250 and 400W MBF/U and No. 2/4135 (illustration, right) with 80 and 125W MBF/U and 100-200W tungsten-filament lamps. It is claimed that a higher peak intensity is obtained in the main beams, together with a reduction in the amount of light emitted directly across the road. The new refractors are directly interchangeable with the existing Bi-way types Nos. 2/4140 and 2/4115, having similar flange and light centre measurements, and offer comparable or improved light distribution characteristics with the same range of mercury fluorescent, mercury discharge and filament lamps.

Holophane Ltd., Elverton Street, London, S.W.1.
Readers' Information Service
Ref. B. 21/9/60.

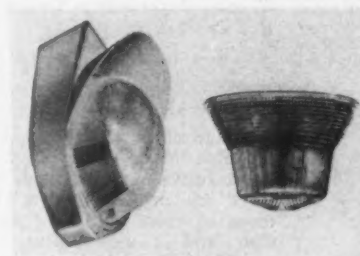
Ladder Platform (C)

The Asset ladder platform is a device which adds to the safety of those working on ladders whilst at the same time aids them in their work. The platform is strongly made of aluminium braced with steel and clamps onto the tops of ladders to provide a sound bearing of 4ft against walls. It will span most windows and has a V-shaped frontal recess for bridging downpipes and other obstructions. Hooks are provided for paint pots and the tray holds all necessary tools. There is a wooden insert in the tray which allows a vice to be fixed, and such tools as chisels may be used without risk of damaging them. The spring-loaded supporting arms of the tray run on ball castors so that the ladder can be raised or lowered easily and moved from side to side as required. The platform is adjustable to suit ladders of varying widths. Price: £7 19s 6d.

Selros Agencies, 129 Stoke Newington Church Street, London, N.16.
Readers' Information Service
Ref. C. 21/9/60.

New Bonderizing Treatments

A new range of Bonderizing treatments for aluminium and aluminium alloys has recently been introduced. Four new techniques are representative of an economical low-temperature method of coating aluminium and converting the surface into a thin amorphous oxide-chromate coating which is integral with the metal itself. Bonderite 710 coatings are of a well-defined golden colour, although variations in tone may occur according to the different alloys used. It will treat such varied subjects as small aluminium parts and continuous strip; and processing times are exceptionally low. Bonderized aluminium can, if necessary, be formed after painting. The amorphous Bonderite coating tightly bonds the paint so that forming operations can be performed without impairing paint adhesion. The second process, Bonderite 701, converts the aluminium surface into an amorphous oxide-chromate coating of a green colour which is integral with the metal and light-fast. It is, in addition, stated to provide a good corrosion protection. Bonderite 740 is another oxide-chromate treatment, providing a coating which is both a good base for organic finishes and also a corrosion resistant film. It can be applied by immersion, spray or in a continuous strip line and has been specially



Top: Translucent eye-screen for street lighting fittings (A)

Bottom: (Left) Hastings wall mounting unit. (Right) 2/4135 Bi-way bowl refractor (B)

The Asset ladder platform (C)



developed for treating aluminium and aluminium alloys in mixed production with steel. The fourth new process, Aluma Etch 391, is a scale-free, controlled alkaline aluminium etchant for etching the surface of aluminium in an immersion bath. Its special formulation prevents the conversion of sodium aluminate into sludge and therefore produces neither suspension nor precipitate. It is possible to control operations in order to produce the required etch uniformly and evenly diffused, irrespective of size of surface area to be covered. The parts to be treated are immersed in the hot solution for a pre-determined time to remove soil and to produce the required degree of etch. On removal from the bath, parts should simply be rinsed in cold water.

The Pyrene Co. Ltd., Metal Finishing Division, Great West Road, Brentford, Middx. Isleworth 4131. Readers' Information Service Ref. D. 21/9/60.

New Dumpers (E)

A range of new dumpers, known as the RoadMac Young Lions, is the latest addition to the plant manufactured by this company. There are three of these machines, the Whelp, Cub and Lioness, with respective capacities of 15, 22½ and 30cwt. They are easily manoeuvrable and the two smaller dumpers have turning circles of 7ft 9in whilst that of the Lioness is 10ft. The dumpers have been specially designed to give an instantaneous clean discharge and loading heights have been kept to a minimum for ease of charging by mixer, by hand or mechanically. The steering axles are centrally pivoted to give maximum articulation. The machines are diesel powered, the Whelp by a Petters AVA 1 6 B.H.P. engine, the Cub by a Petters PH 1 7½ B.H.P. engine and the Lioness by a Petters AVA 2 12 B.H.P. engine. Capacities: Whelp—22 cu ft (heaped), 18 cu ft (struck); Cub—27 cu ft (heaped), 22 cu ft (struck); Lioness—36 cu ft (heaped), 28 cu ft (struck). Illustration shows the Cub dumper.

Road Machines (Sales) Ltd., West Drayton, Middlesex. West Drayton 3721. Readers' Information Service Ref. E. 21/9/60.

New Dumpers (F)

Two new Winget-Muir Hill Dumpers, known as Red Devils, have recently been introduced. These machines, Models 2-S and 3-S, have respective capacities of 15cwt and 22½cwt. Outstanding features of the machines are a double front end in the chassis to give freedom from torsion, and the absence of belts or driving chains. A special feature of both models is the crane-skip equipment which is supplied

as an alternative extra to the standard units. A simply-designed cradle attachment enables the dumper to carry a bottom discharge crane-skip which can be automatically placed or picked up from a transfer frame. Thus, whilst one loaded skip is being placed by the crane, the dumper can fetch another from the mixer. Model 2-S is powered by either a Petter AVA 1 6 b.h.p. diesel engine or a Lister LD2 7 b.h.p. diesel. The gear box is of heavy-duty four-speed constant mesh type with built-on reduction unit. Brakes: Girling mechanical (40 sq in brake area). Skip capacities: 12 cu ft (water level), 16 cu ft (struck), 20 cu ft (heaped). Road speeds: 2½, 5½ and 11½ m.p.h. (forward) and 2½ m.p.h. (reverse). Loading height: 48in. Ground clearance: 1ft 2in (bottom discharge) and 7in (front discharge). Unladen weight: 18cwt. Overall measurements: 7ft 9in long by 5ft wide by 4ft 5in high. Turning circle: 21ft. Model 3-S is powered by a Petter PH 1 single-cylinder 8½ b.h.p. diesel engine and has a constant mesh gearbox providing three forward and one reverse speeds. Brakes: Girling 10in by 1½in on the drive wheels, operated mechanically by foot pedal or parking hand lever. Skip capacities: 18.2 cu ft (water level), 22.7 cu ft (struck), 30 cu ft (heaped). Road speeds: 2.9 m.p.h., 6.8 m.p.h. and 12.5 m.p.h. (forward) and 3.3 m.p.h. (reverse). Loading height: 3ft 4½in. Skip ground clearance: 2½in (when tipped vertical). Unladen weight: 19½cwt. Overall measurements: 8ft 9½in long by 5ft 6in wide by 4ft 10½in high. Turning circle: 23ft.

Winget Ltd., Rochester, Kent. Strood 7276. Readers' Information Service Ref. F. 21/9/60.

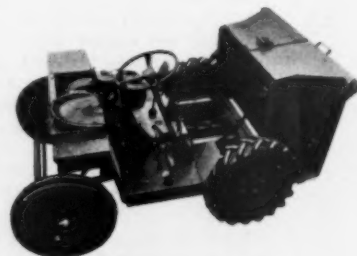
Aluminium Pickets for Chain Link Fencing (G)

From the U.S.A. comes news of aluminium pickets for installation in the diagonal valleys of chain link fencing. Known as Panelweve, these pickets are pre-cut to the proper length and finished in baked enamel colours. Different patterns can be woven into the fence by using the various available colours. The pickets simply need to be pressed into the valleys of the mesh and then secured at top and bottom. Patented features include a locking device at the top of each picket. Panelweve is available for all fence heights. Special tools are not necessary and ordinary scissors can be used to shear pickets where full lengths are not needed. They are made from Reynolds rustproof aluminium Colorweld sheet. Colours: mist green, white, pastel pink, redwood, sandalwood, yellow and embossed silver.

All Products Company, P.O. Box 110, Mineral Wells, Texas, U.S.A. Readers' Information Service Ref. G. 21/9/60.

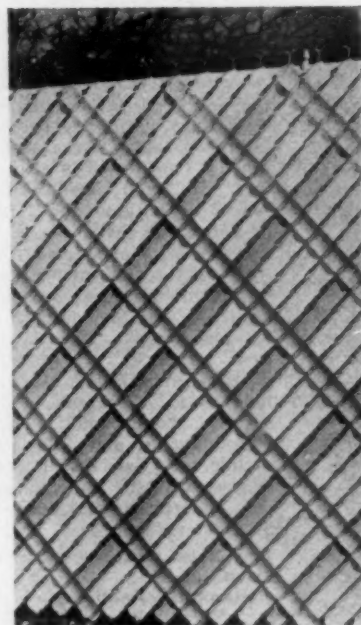


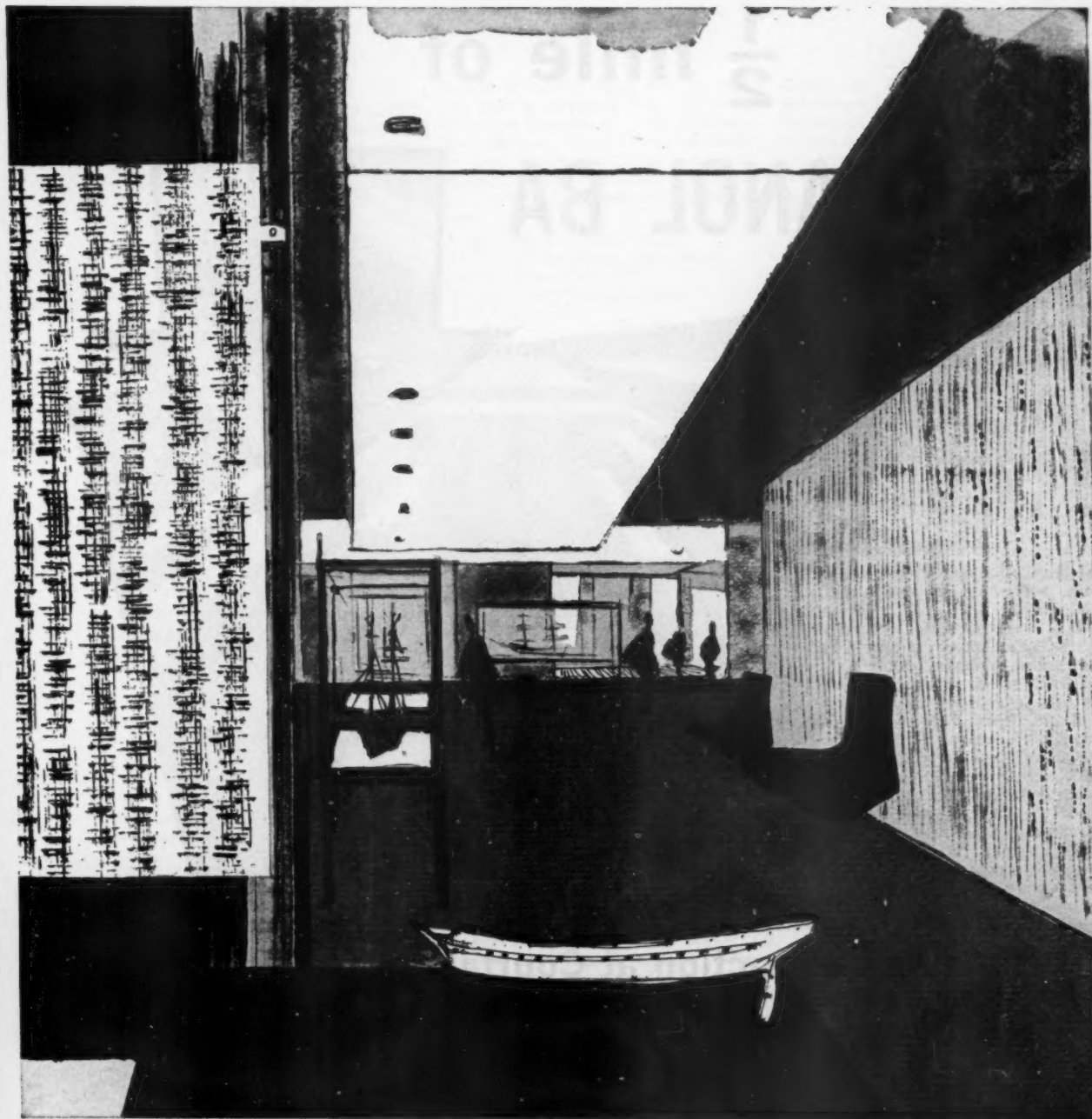
The RoadMac Cub Dumper (E)



Winget-Muir Hill 15cwt 2-S Dumper (F)

Below: Panelweve pickets for chain link fencing (G)





Drawing by John Clarke



MORTIMER STREET

A place for Wallpaper

THE FOLLOWING COLLECTIONS
ARE AVAILABLE FOR ARCHITECTS CONCERNED
WITH THE SPECIFICATION OR DIRECTION
OF DECORATIVE SCHEMES

PALLADIO, HAYWARD, THE ARCHITECTS BOOK

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The Architects' Department The Wall Paper Manufacturers Limited
19/21 Mortimer Street London W 1
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$\frac{1}{2}$ mile of OPPANOL BA



speeds construction at Courtaulds Preston factory

The brickwork lining for Courtaulds new chemical effluent channel was bonded with Furane Resin cement. Until set, this cement is incompatible with water, and to wait until the newly laid concrete shell was completely dry would have held up work for weeks.

KEEPING WATER OUT Oppanol BA Plastic Sheeting was the ready made answer to this problem. A layer of this waterproof, rotproof material between brickwork and concrete provided a tough, impervious barrier ... enabled the bricklayers to work close behind the concrete mixers.

KEEPING CHEMICALS IN The new channel has to carry a heavy flow of chemical effluent for more than half a mile. Non-corrodible, non-ageing Oppanol BA ensures it will do this safely, permanently.

OPPANOL PLASTIC SHEETING—gives lasting protection against acids, alkalis, water, corrosion of all kinds in floors, foundations, walls, bridges, tunnels and conduits.

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Courtaulds Limited
Specialist Laying Contractors,
Semtex Limited,
Industrial Div.,
Salford 3

Silent Indicating System

From America comes news of a new "in-and-out" system for keeping track of key office and sales personnel. Known as the "In-dicator" system it is designed for use in small to medium sized offices, banks, plants and in departments of larger organizations. The system contains three elements, a 10- or 20-name register, a compact indicating panel and a low-voltage transformer. The register can be situated near any convenient entrance, while the indicating panel is placed on a reception desk or telephone switch-board. For remote locations, single-name executive registers are also available. When entering a building or office the key personnel flip the register switch associated with their names to the "in" position and when a visitor or phone call is received the receptionist or operator presses a button on the indicating panel corresponding to the name of the person wanted. Green or red lamps will light according to whether he is in or out. The register measures 4½ in by 6½ in by 1½ in and can be either flush or surface mounted. The 10-name unit fits into standard three-gang boxes whilst 20-name units can be mounted in six-gang boxes. The indicating panels require no mounting and measure 3 in by 3½ in with inclined, satin-finished faces. The new system operates on 24V 60c/s power and is stated to meet Class 2 requirements, Article 725, of the National Electrical Code.

*Edwards Company Inc.,
Norwalk, Conn., U.S.A.
Readers' Information Service
Ref. H. 21/9/60.*

★

Laminated Glass Fibre Panel

This company has produced an architectural panel of laminated glass fibre and polyester resin, self-coloured and embossed or recessed in a decorative finish. Panels are resistant to corrosion in marine atmospheres, strong and much lighter than other equivalent materials. They have already been used on a block of flats at Hove, Sussex, for infilling on wrought iron balcony surrounds. Four patterns are at present available, there being two types of reeded panel with surface section either convex or concave and spaced at 1 in centres, and two others of different pattern. All panels are stated to conform to B.S. Specification both in colour and fire resistance. Any colour or thickness can be supplied for larger orders. Panels at Hove were ½ in across the widest section and were made up into a double sided decorative component. Single thickness sheets were also used in the flats as surrounds for baths. The panels can be bonded to flexible asbestos sheets or hardboard if desired. Standard sizes for double or single sided reeded panels are 8 ft by 4 ft or 4 ft by 4 ft, with respective thicknesses of ½ in and ⅜ in.

Single or double sided flat panelling can also be obtained. The panels can either be screwed or fixed with contact adhesive. Prices: these will vary with individual orders and the double sided laminate costs about 7s 6d per sq ft and single sided about 3s 9d per sq ft.

*Glass Fibre Development Ltd.,
81 South Coast Road, Peacehaven,
Sussex. Peacehaven 2183.
Readers' Information Service
Ref. I. 21/9/60.*

★

Tractor Loader

The BTL 14D tractor loader, of American origin, is now being built by Allis-Chalmers Great Britain Ltd. It is a four-wheeled rubber tyred loader capable of fast digging, lifting, carrying and dumping of soils, sand, gravel, coal, shot rock, etc. It is powered by an A.E.C. 87 h.p. diesel engine and equipped with buckets ranging from 1 to 3 cu yd capacities (standard bucket size is 1½ cu yd). The bucket tip-back at carrying height is 47 degrees and there is up to 18,800 lb breakout force at the cutting edge. The tractor loader has a fully enclosed and protected hydraulic system and has power reversing tractomatic transmission with a lever on the steering column to control both forward and reverse movement without stopping the machine to clutch and shift gears. Four forward speeds are provided up to 22.3 m.p.h. and four reverse speeds up to 29.3 m.p.h. Dumping clearance under the cutting edge is 8 ft 3 in and 10 ft 5 in under the hinge pin at maximum dumping height. Reach from front of the tyres to cutting edge is 2 ft 10½ in. Turning radius is 18 ft 11 in. Four wheel hydraulic power boosted brakes are fitted as standard together with a mechanical parking brake.

*Main distributors: Mackay
Industrial Equipment Ltd.,
Central Way, Feltham, Middx.
Readers' Information Service
Ref. J. 21/9/60.*

★

Dumper Trailer

The new hydraulically operated 7 cu yd Leedsall Dumper Trailer has been produced for use with the Fordson Major Tractor and similar units. It has been designed to give a high all-round performance and has a unique type of draw-bar linkage which allows complete articulation in all directions with a 90 degrees swing in either lock. The draw-bar permits the tractor-trailer combination to articulate within the stability of each unit and gives a turning circle of 30 ft. The type of draw-bar universal coupling employed makes for compact overall length and wheelbase dimensions and also does away with excessive torsional stresses when the outfit is under full lock and fully articulated in any plane. The body is of ½ in steel plate, fabri-

cated and welded throughout and reinforced by ⅜ in thick press-brake formed channel section stiffeners. The chassis is of heavy section "A" form construction, made from 9 in by 3 in rolled steel channel. Wheels are fitted with 1,400 x 24, 12-ply rear tyres of the earth moving type and are fitted with steel hubs, taper roller bearings and Girling air brakes. Capacities: 5 cu yd (struck), 7 cu yd (heaped) and 20,000 lb (load). Overall measurements: 22 ft 10 in long (wheelbase from tractor rear axle to dumper rear axle—12 ft 3 in) by 8 ft high body (11 ft 8 in in dump position) by 7 ft 6 in wide (over rear tyres).

*Robert Hudson Ltd.,
Raletrux House, Meadow Lane,
Leeds 11.
Readers' Information Service
Ref. K. 21/9/60.*

★

Wall Insulation Material

Kotina is a new polystyrene insulating material which can be applied under wallpaper or paint. It is a lightweight, high-thermal insulation sheet and is applied with a special adhesive. In addition it has sound-deadening properties and insulates against dampness and condensation. Kotina can additionally be used under the final ceiling cover. The adhesive ("Adpep") should be applied undiluted to the wall or ceiling and not to the Kotina, either by means of a stiff brush or spread evenly with a metal blade. A Kotina sheet should then be rolled on and pressed lightly to ensure perfect adhesion. It is not necessary to size the Kotina before hanging wallpaper or lining paper and any well-known brand of starch or cellulose wallpaper paste can be used. When redecorating, the wallpaper should be soaked with soft water to which a wetting agent or suitable stripper has been added. It will be found that the wallpaper will strip off easily leaving the Kotina intact, providing a metal scraper is not used. Kotina is supplied in sheets measuring 3 ft by 4 ft and in a thickness of 2 mm. Price: 2s 9d per sheet.

*Hayward & Son Ltd.,
Thermal Insulation Division,
Old Ford Road, Bow, London, E3.
Advance 5441.
Readers' Information Service
Ref. L. 21/9/60.*

★

New Lighting Fittings (M)

School and general purpose lighting fitting SL/1 is the latest addition to this firm's range. It has a satin opal glass and can be supplied with either BC or ES lampholders. The basic unit, complete with BC lampholder, costs 27s 9d, plus 5s 4d purchase tax. The company also plans to introduce a large range of commercial/decorative fittings in the near future. A comprehensive catalogue, No. 41, will be

available either this month or next, but current lists Nos. 39 and 40 can be obtained on request.

SLR Electric Ltd., Cranborne Industrial Estate, Cranborne Road, Potters Bar, Middlesex.
Readers' Information Service
Ref. M. 21/9/60.

*

Oil-fired Air Heater (N)

The H.S.200 automatic oil-fired air heater is a suspended type unit designed for industrial application. The heaters have a rated output of 200,000/250,000 B.Th.U/hr and emit a volume of 2,500 C.F.M. of warmed air. Illustrated is one of a battery of three units recently installed in a Midlands factory. Each of these units is fitted with ducting to provide equal distribution of warm air throughout the premises. Overall dimensions: 8ft 10in long by 2ft 6in by 2ft 6in. Weight: 15cwt approximately.

Hainault Engineering Co. Ltd., Fowler Road, Hainault, Essex.
Readers' Information Service
Ref. N. 21/9/60.

*

New Tayco Boilers (O)

The Tayco Super-Thermatic solid fuel domestic boiler, introduced about a year ago and styled by Neville Conder, MSIA, FRIBA, has now been thoroughly tested by actual use over long periods in customers' homes. It is claimed that results have proved that the efficiency factor of this boiler with the Quartic-shaped body section is over 75 per cent as against the accepted British minimum standard of only 60 per cent. Thus the makers have been encouraged to launch a complete range of both solid fuel and oil-fired boilers with Quartic-shaped bodies. An unusual feature of these boilers—also designed by Neville Conder—is that the outer casing is interchangeable so that colour schemes can be altered if desired.

Tayco Boilers Ltd., 170/172 Victoria Street, London, S.W.1.
Readers' Information Service
Ref. O. 21/9/60.

*

Built-in Refrigerator (P)

The A 160 electrical built-in refrigerator, with an absorption type cooling unit, has recently been introduced. It has a storage capacity of 1.6 cu ft and a shelf area of 3.1 sq ft. The machine is thermostatically controlled and is suitable for ambient temperatures up to 90 deg F. A bottle shelf and egg rack are incorporated in the door interior. The cooling unit, provided with two ice trays for making 24 ice cubes, can alternatively store up to 4lb of frozen food. There are also two steel wire shelves and a polystyrene drip tray. The door opening can be either left or right handed. Finish:

cabinet exterior and ventilator louvres—white or cream stove enamel; interior door and shell—light blue high impact polystyrene. Electrical: loading—95W; voltages—95/100, 100/115, 190/220 or 220/250 a.c./d.c. Overall measurements: 31in high by 21in wide by 23in deep. Weight: 75lb. Price: £35 10s (including P. Tax). The A 160 is also available for operation either on town or bottled gas.

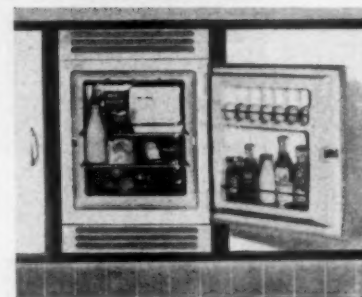
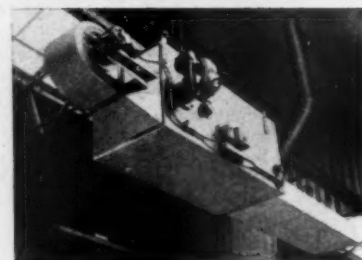
Morphy-Richards (Astral) Ltd., 50 Conduit Street, London, W.1.
Readers' Information Service
Ref. P. 21/9/60.

*

Heavy-duty Wall Finish

Spreluxe and Spreluxe Duotone are versions of a tough abrasive-resistant plastic wall coating with a thickness approximately 10 times that of paint. Spreluxe has a very low relief (almost flat finish) which is so hard that it does not need glazing to make it completely cleanable. Spreluxe Duotone has a slightly higher relief texture with an eggshell glaze finish. Both versions must be applied by spray. The base coat covers rapidly and, whilst it is still wet, a rounded texture of the same material is oversprayed in contrasting colours. The paint dries to a resilient film giving, it is claimed, a surface even harder than cement glaze. The profile of the rounded texture is designed to deflect accidental knocks and blows, thereby avoiding most mechanical damage. Makers state that the coating will last for years without maintenance and provides a good decorative covering to those parts of a house where wear and tear is usual. The paint finds its main application in hospitals, railway stations, public houses, schools, offices and factories. It can be used externally for terraces and garden houses. The broken colour textured nature of Spreluxe Duotone will effectively hide irregular plastering, faint lines, scars and badly prepared 'making good' which conventional paints tend to accentuate. In conjunction with Spreluxe Bonding Primer it can be applied over glazed tiles which may have become ugly and unhygienic through crazing. Dark brown glazed bricks can also be obliterated and modernized. The whole process is quite odourless since the solvent is water. The paint can be applied very rapidly and many decorating companies have already been trained as approved applicators. Colours: Base coats—white, pastel blue, pink glow, pastel green, sunshine yellow, blush, light grey and twilight blue. Respective first speckle coats—pink glow, pink glow, light grey, sunshine yellow, oatmeal, sunshine yellow, twilight blue, pink glow. In all cases the second speckle coat is white. Price: base coat—56s gal.; speckle coat—57s gal.

Leyland Paint & Varnish Co. Ltd., 75 Newman Street, London, W.1.
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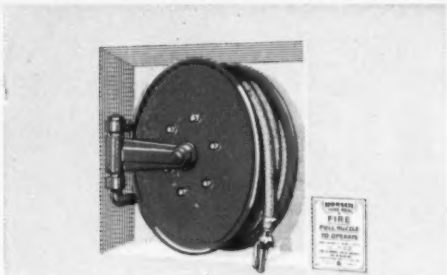


Top: SL/1 general purpose fitting (M)
 Centre: H.S.200 oil-fired air heater (N)
 Bottom: A 160 built-in refrigerator (P)
 Below: Tayco Quartic boiler (O)



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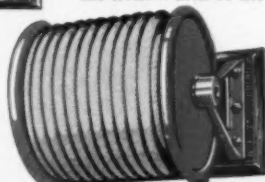
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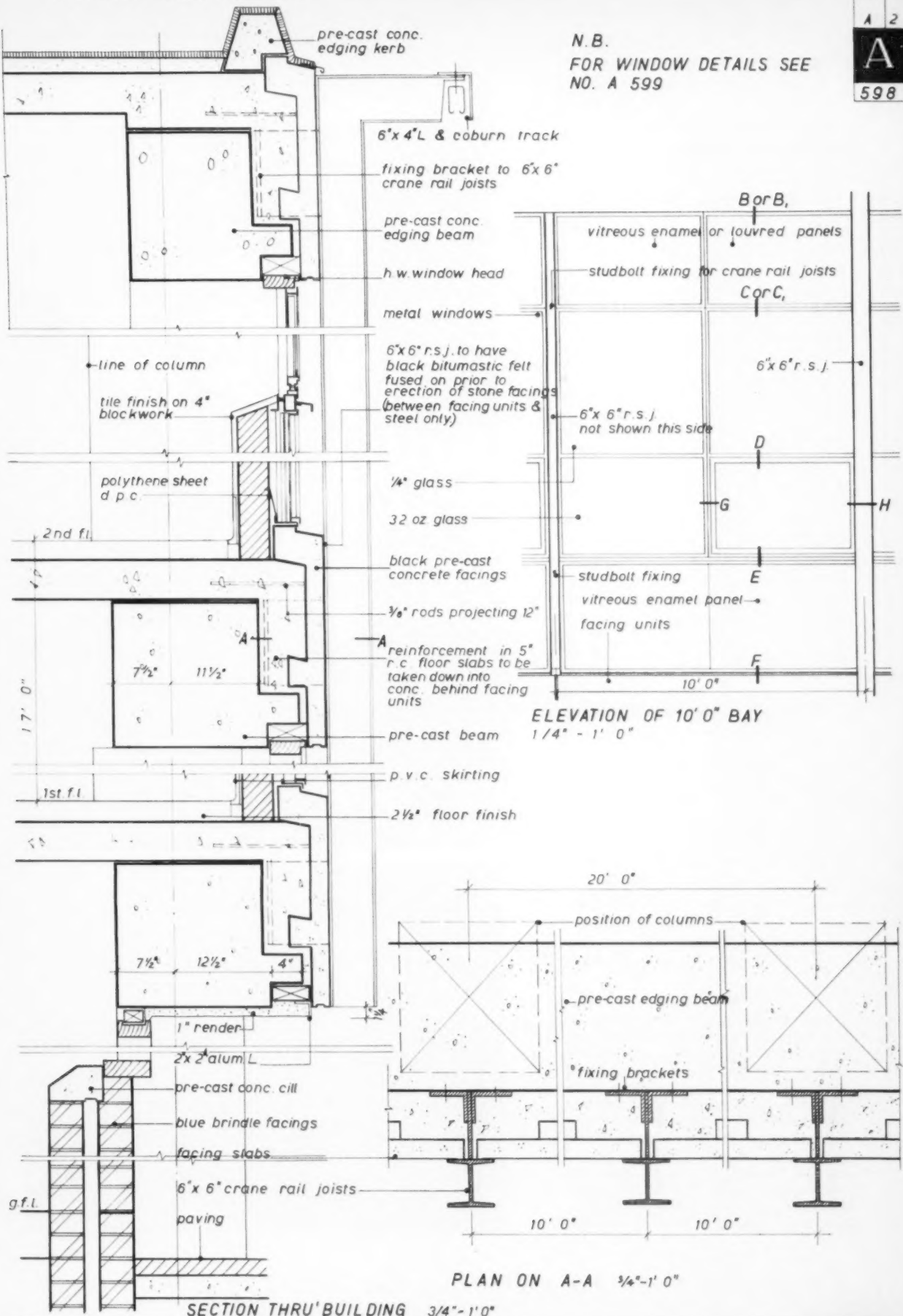
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Contract News

WORK IN PROSPECT

Armagh C.C. Erection of Keady county secondary intermediate school, school meals kitchen and construction of playing fields. Apply: W. H. Stephens & Sons, 13 Donegall Square North, Belfast 1.

Bootle. Extensions to works in Park Lane West for Forticrete Ltd.

Bury. Erection of two-storey research laboratory in Radcliffe Road for Donald Macpherson and Co. Ltd., Warth Mills, cost £100,000.

Chatham. The War Office has approved the erection of barracks for the Royal Engineers at Chattenden.

Chester. The Liverpool regional hospital board proposes new out-patients' department at the Royal Infirmary.

Crewe. Erection of a primary school at Moat House Farm, Wistason.

Cumberland. The education committee has approved extensions to Cumberland and Westmorland farm school at Newton Rigg, near Penrith, estimated cost £145,000.

Erection of comprehensive school at Egremont, estimated cost £500,000. County architect, Portland Square, Carlisle.

Durham. Plans have been approved for Durham Colleges for accommodation for 22 Hatfield College students, with flats for tutors and staff.

Eccles Corporation. The general purposes committee has approved an application, submitted by the County Council, for alterations in Liverpool Road.

Hull Corporation has approved the erection of a training centre for seamen at Welton Waters.

Lancaster. The Manchester regional hospital board, Cheetwood Road, Manchester, is to erect a nurses' home at the Royal Infirmary, cost £30,000.

London. The City of London corporation has approved (a) drawings and materials details for an office building for International Headquarters of the Salvation Army in Queen Victoria Street, Upper Thames Street and other sites in E.C.4; (b) drawings for an office building in Fore Street, London Wall and Aldermanbury Postern as a livery hall for The Worshipful Company of Salters.

London, N. Erection of a factory in Hoxton Street. Architects: Oscar Garry and Partners, 66 Gloucester Place, W.1.

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London, S.E. Erection of bottling factory in Park Street for Courage and Barclay Ltd. Consulting engineers: Sir Alexander Gibb and Partners, Queen Anne's Lodge, S.W.1, estimated cost £1,250,000.

London, W. Erection of six-storey extension to the Clifton Hotel in Welbeck Street. Architects: Katz and Vaughan, 208a, Welbeck Street, W.1.

London, W.C. Erection of block of shops and offices at 319-322 High Holborn, W.C.1.

Manchester. Erection of (a) warehouse and offices in Dallimore Road, Wythenshawe for Kodak Ltd.; (b) office block at Ardwick.

Ministry of Commerce, Northern Ireland. Design, supply, fabrication and erection of structural steelwork for factory extension at Lisnaskea, Co. Fermanagh. Apply: Room 14, Chichester House, 64 Chichester Street, Belfast.

Newcastle-on-Tyne. The regional hospital board, Benfield Road, propose new boiler plant and engineering services at Hunters Moor Hospital, Spital Tongues, Newcastle. Consulting engineers: Powell Duffryn Technical Services Ltd., 29 The Site, Newcastle-on-Tyne.

Erection of four-storey showrooms and offices in Blenheim Street for Roland Burgess Ltd., Pilgrim Street, Newcastle. Tenders are to be invited next month.

Newport (Mon.) Corporation. Tenders are invited for the occupation centre, maternity and child welfare clinic at Malpas, estimated cost £94,735.

The planning committee has approved a proposal for a college of further education in Milner Street.

North Riding C.C. The county homes and welfare committee has approved the installation of passenger lifts at (a) Richmond House, Richmond, estimated cost £2,100; (b) Ashfield House, Malton, estimated cost £2,500; (c) county home for the aged in Royal Crescent, Whitby, estimated cost £3,250.

Peterborough. The county planning committee has approved applications for (a) factory and store at Fengate for Delecta Table Waters Ltd., Fleur de Lys House, Norwich; (b) light engineering blocks and warehousing at First Drove, Fengate, for Atcost (Factories) Ltd.

Erection of four-storey bedroom wing at the Bull Hotel for Paten and Co. (Peterborough) Ltd., 19 Long Causeway, Peterborough.

Ramsgate. Erection of hall and offices in the High Street for the Ramsgate Labour Party.

Reading. The district hospital management committee has approved a modernization proposal for the Adelaide Ward, Royal Berkshire Hospital, estimated cost £25,000.

Renfrewshire. Erection of a comprehensive centre at Little Consford for the Scottish Council for the Care of Spastics, Scotsraig Park Road, Paisley.

Sheffield. The town planning committee has approved a proposal by British Railways for 15-storey office block near Midland Station. Architects and consulting engineers: Husband and Co., 388 Glossop Road, Sheffield 10.

St. Helens (Lancs). Extensions to Parr factory for Crosby Spring Interiors Ltd., Fleet Lane, St. Helens, estimated cost 'several thousand' pounds.

Stoke-on-Trent. The Birmingham regional hospital board, Edgbaston, Birmingham, has approved the provision of an out-patients' department at North Staffs Royal Infirmary, cost £643,975.

Sunderland. The corporation planning committee has approved plans for an extension to Sunderland teachers' training college.

Twickenham. Erection of showrooms, shops, etc., for Phelps Ltd., 133 St. Margaret's Road, Twickenham. Architects: Broadway and Malvan, 34 Baker Street, Weybridge, Surrey.

Warrington. The Liverpool regional hospital board are to erect a small small-pox hospital at Sankey.

Winchester C.C. Layout has been approved for a hotel on the cathedral car park site for Trust Houses Ltd. Architects: J. Hopwood, 53 Shorts Gardens, Drury Lane, London, W.C.2.

SUBMISSIONS FOR PLANNING AND BYE-LAW APPROVAL

Blackpool Corporation. Plans submitted for erection of (a) abattoir off Mobray Drive; (b) flats in Lytham Road/Harrow-side for British Limbless Ex-Servicemen's Association, 105/107 Cannon Street, London, E.C.4; (c) flats and private garages in Clifton Drive, Hardhorn Place, Cardigan Place and Abercorn Place for A. Crawshaw, 107 Newton Drive, Blackpool; (d) petrol filling station in Common Edge Road for Mr. J. Norton; (e) service station at Ivy House Holiday Camp for F. Wood, Ivy House Holiday Camp, Common Edge Road, Blackpool.

Bolton Corporation. Plans submitted for (1) erection of shopping block with offices over at Victoria Square for Arndale Property Trust Ltd., Bank Street, Bradford; (2) extensions to works off Manchester Road for Tillotsons (Bolton) Ltd.

Darlington Corporation. Plans submitted for erection of 'motel' at Great Aycliffe Village.

Douglas, Isle of Man, Corporation. Plans submitted for rebuilding saw mill and stores in Lake Road for Quiggin & Co. Ltd.

Enfield Corporation. Plans submitted for erection of hostel and training school for police cadets at The Ridgeway.

Glasgow Corporation. Plans submitted for erection of (a) offices, stores and motor vehicle accommodation in Berkeley Street and Elderslie Street, David Allen & Sons Ltd.; (b) two semi-detached villas in May Terrace, V. Fox; (c) single-storey building for rest room as extension of canteen, Bull's Metal & Marine Ltd., Bull-Dale Street; (d) additional storey and alterations at garage in Maxwell Road, J. C. Miller; (e) depot for storage, distribution, maintenance and servicing of washing machines in Rosyth Street, Queenferry Street and Roseberry Street, Wilkins & Mitchell Ltd.

Hastings Corporation. Plans submitted for (1) erection of (a) office and store in Battle Road, submitted by Messrs. Fryer & Sons for Farmers Direct Supply Dairies; (b) 16 detached houses and bungalows with garages in Ironlatch Close and Ironlatch Avenue, submitted by Douglas White & Furniss for Oakwood Builders Ltd.; (c) three blocks of flats in Combermere Road, submitted by Ronald Salmon & Partners for The Francis Group of Companies; (d) flats and garages in High Street for the Corporation housing committee; (e) four blocks of garages and 64 detached garages on Briers Hill estate for Prowling Estates Ltd.; (f) car showroom and repair workshop in Battle Road, submitted by Mr. H. Sweatman for Tivoli Garages; (2) layout and erection of 30 three-bedroom detached houses with garages and formation of vehicle accesses in Fairlight Road, submitted by Ronald Salmon and Partners for Paulivia Ltd.; (3) installation of shopfront at 30/32 London Road, submitted by Mr. B. A. Savage for Timothy Whites and Taylors Ltd.; (4) outline application to erect (a) block of nine flats with nine garages in Upper Maze Hill, submitted by Mr. H. Sweatman for Mr. James Barlow Pratt; (b) block of 20 flats at 'Holt Regis', St. Helens Park, submitted by Mr. A. C. Draycott for Mr. G. Dunnet; (c) five-storey block of 10 flats with basement garage for nine cars on the Star Inn Site, submitted by Ronald Salmon & Partners for The Francis Group of Companies; (d) eight-storey block of 16 two-bedroom flats, three one-bedroom maisonnettes and one bed-sitting room flatlet with garage and parking space in Warrior Square, submitted by Russell Diplock Associates for Mr. E. Thornton-Smith; (5) substitution of four four-bedroom houses for four three-bedroom houses on the Broomgrove Housing estate for the Corporation housing committee; (6) conversion of (a) Nos. 33/34 Magdalen Road into six semi-contained flats and two semi-contained maisonnettes, submitted by Mr. N. Wyatt for Mrs. E. B. C. Barklem; (b) All Souls old vicarage, Bedford Road into four semi-contained flats, submitted by Mr. A. Cramp for Mr. G. Stanley.

London C.C. Plans submitted for erection of (a) 122 flats and 120 garages in Beaconsfield Road, Vanbrugh Park, Vanbrugh Park Road and Westcombe Park Road, Greenwich (J. R. Eve and Son); (b) office block at 80/85 Albert Embankment and Bridgefoot, Lambeth (Fitzroy, Robinson and Partners); (c) hotel at Craven Hill, Paddington (Frank A. Davies and Partners); (d) multi-storey car park in Great Titchfield Street, ser-

vice station in Greenwell Street, and flats in Carburton Street, St. Marylebone (Amberley Investments Ltd.); (e) central library, assembly hall, offices, garage, public house and sub-station at St. Pancras (Devereux and Davies).

Margate Corporation. Plans submitted for (1) erection of (a) pair of maisonnettes with two garages in Devonshire Gardens for J. R. Timberlake; (b) pair of semi-detached houses in Hengist Avenue for R. G. Holmes; (c) two-storey extension to staff house at Spurgeons Homes, Park Road, Birchington, for the Trustees of Spurgeons Homes; (d) four semi-detached bungalows in King Edward Road, Birchington, for Broadstairs Builders Ltd.; (e) three blocks of four semi-contained flats and 12 garages in Laleham Gardens for Alderney Construction (1954) Ltd.; (f) seven detached bungalows with garages in Clarence Avenue for Palm Bay Estates Ltd.; (g) eight maisonnettes with car parking spaces in Madeira Road for the Salvation Army; (h) three pairs of semi-detached bungalows in Nash Lane for C. R. Harrison; (i) three-storey block of nine flats with six garages and three car parking spaces in Devonshire Gardens for C. E. Tijou; (j) three-storey block of six flats and provision for six garages in Harold Road, Margate, for Astraland & Development Co.; (k) 56 semi-detached and seven detached bungalows and a two-storey block of 34 flats in Minnis Road, Birchington, for Hawker Smith Ltd.; (2) conversion of (a) No. 27 Adrian Square, Westgate-on-Sea, into seven flats with two garages and five car parking spaces for Thanet Estates & Development Co. Ltd.; (b) No. 28 Westgate Bay

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Scarborough Corporation. Plans submitted for (1) erection of garage and showroom in Valley Bridge Road, submitted by E. Allen for Tesseymans of Scarborough Ltd.; (2) extensions to George Pindar county modern school, Eastfield, for North Riding of Yorkshire C.C.; (3) conversion of No. 70 Victoria Road into three flats, submitted by Baker, Clark, Scott & Partners for W. H. Mansfield.

Washington (Co. Durham). Plans submitted for erection of residential hotel, garage, etc., in Junction Road.

Whitehaven (Cumberland). Plans submitted for erection of an hotel in Coast Road.



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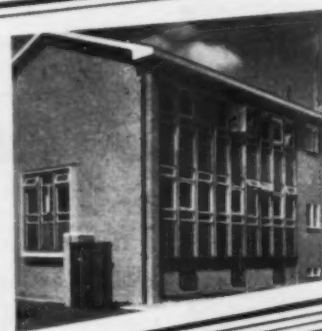
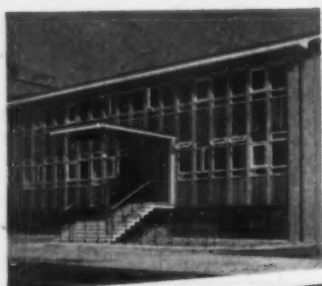
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Executive Architect: C. A. Legerton, Esq.,
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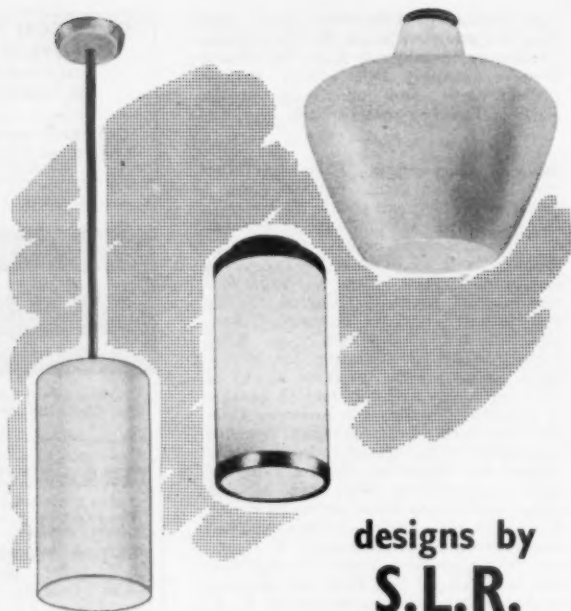
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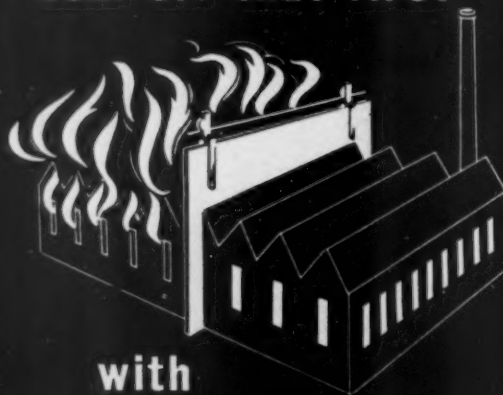
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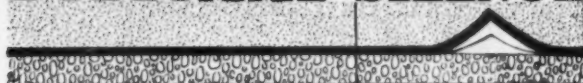
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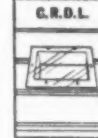
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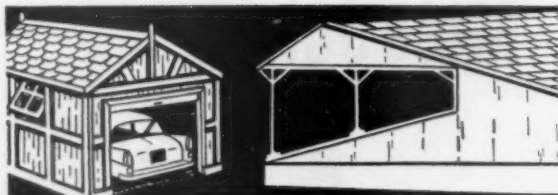
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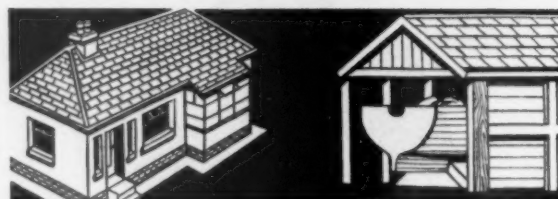
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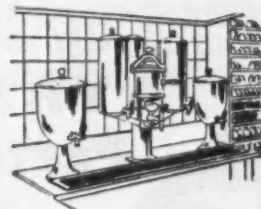
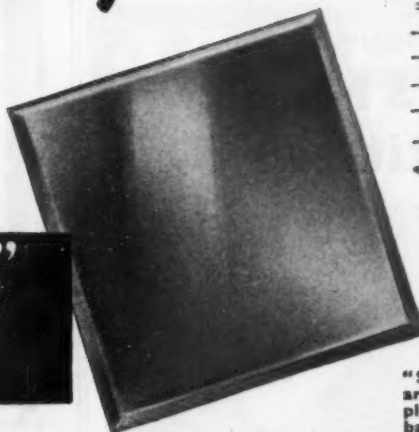
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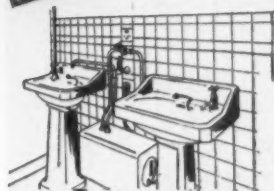
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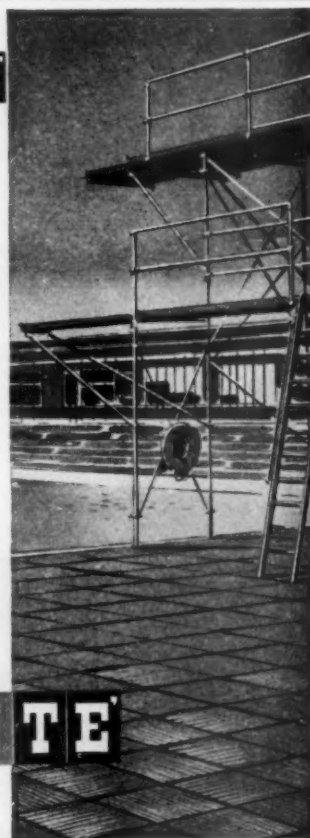
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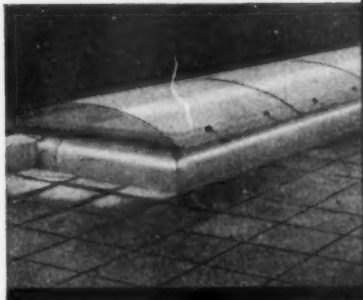
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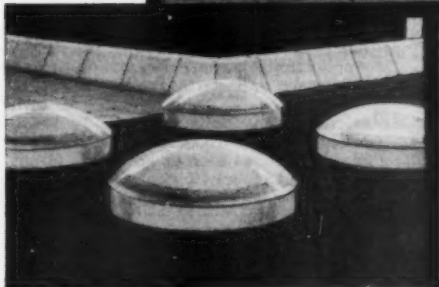
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Official Announcements

APPOINTMENTS CONTRACTS TENDERS

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APPOINTMENTS

County Borough of Bury
APPLICATIONS are invited for the permanent appointment of **ASSISTANT ARCHITECT**, Special Grade (£785-£1,070). Commencing salary according to qualifications and experience. Applicants must have passed Parts I and II of the RIBA Final or Special Final Examination or other equivalent at one of the recognized Schools of Architecture. Applications stating age, details of training, qualifications and experience, present and previous appointments and salary, together with the names of two referees, must reach me by October 8, 1960.

EDWARD S. SMITH,
Town Clerk.

Town Hall,
Bury.
September 16, 1960. [7008]

SURVEYORS (Basic Grade) required by Ministry of Works in London, Home Counties, Birmingham and Aberdeen. National salary scale £805 (at age 25) to £1,260 per annum. Starting pay up to £1,095 at age 34 according to age and experience. Salary for London posts is subject to an addition of up to £40 per annum. Five-day week, 22 days annual leave.

Prospects of promotion and opportunities for permanent and pensionable posts. Applicants should be Registered Architects by examination or Corporate Members of RICS (Building Section). Apply stating age, qualifications and full details of experience to Chief Maintenance Surveyor (Recruitment), Ministry of Works (A), Stanley House, Marsham Street, London, S.W.1. [0352]

Merioneth County Council
DEPUTY COUNTY PLANNING OFFICER AND SENIOR PLANNING ASSISTANT required at salaries within Grade APT V and Grade APT IV respectively. Applicants should be corporate members of the Town Planning Institute by examination. Both posts are designated as 'essential users'. Further particulars and application forms from the Clerk of the County Council, County Offices, Penarlag, Dolgellau. Closing date, October 1, 1960. [6986]

Borough of Wembley
APPOINTMENT OF ASSISTANT ARCHITECT
(Special Classes £785-£1,070 plus London 'Weighting' Allowance)
APPLICATIONS are invited from suitably qualified persons. Commencing salary according to experience. Forms of application, returnable by October 3, 1960, are obtainable from the Borough Engineer and Surveyor, Town Hall, Wembley. Housing accommodation cannot be provided.

N. CUMPTSY,
Town Clerk.

Town Clerk's Office,
Town Hall,
Wembley.
September 21, 1960. [6988]

Lancashire County Council
APT V (£1,220-£1,375) PLANNING ASSISTANT required at Preston for Development Control. Applicants must have appropriate experience and a recognized qualification. Applications giving age, qualifications, present appointment, experience and two referees to the County Planning Officer, East Cliff County Offices, Preston, by September 28, 1960. [6994]

Sittingbourne and Milton Urban District Council
Amended Advertisement
ASSISTANT ARCHITECT

APPLICATIONS are invited for the above appointment from persons suitably experienced in housing and other local authority work. National Scheme of Conditions of Service and Local Government Superannuation Acts apply to the appointment. Salary within Grades APT III or IV appropriate to qualifications and experience.

Housing accommodation will be considered according to needs within the present inclusive rentals of £2 2s and £2 11s per week. 50 per cent of the successful candidate's removal expenses will be paid by the Council.

Applications, with names and addresses of two persons to whom reference may be made, should reach the undersigned not later than Monday, October 3, 1960.

D. ALLEN,
Clerk of the Council.

Council Offices,
76 High Street,
Sittingbourne.
September 13, 1960. [6992]

Urban District Council of Corby
JUNIOR ARCHITECTURAL ASSISTANT
(Grade APT I or II)

APPLICATIONS are invited for the above appointment in the Architectural Section of the Engineer and Surveyor's Department.

Applicants must have passed the RIBA Intermediate Examination or its equivalent at one of the recognized schools of architecture and the salary, applicable to candidates of not less than one year's subsequent experience in an architectural office, will be in accordance with APT Grade II (£765-£880 p.a.), otherwise in accordance with Grade APT I (£610-£765 p.a.).

The provisions of the Local Government Superannuation Acts, 1937/53, will apply to this appointment.

Housing accommodation will be made available to the successful candidate if married.

Forms of application may be obtained from the undersigned, to whom they should be returned not later than the first post on Monday, October 10, 1960. Testimonials will be required only from applicants selected for interview.

G. B. BLACKALL,
Clerk of the Council.

Council Offices,
Corby,
Northants.
September 14, 1960. [6998]

County Borough of Bury
APPLICATIONS invited for the permanent appointment of **ARCHITECTURAL DRAUGHTSMAN**, Miscellaneous III (£525-£590). Commencing salary according to qualifications and experience. Applications, stating age, qualifications, experience, present and previous appointments and salary, together with the names of two referees, must reach me by October 8, 1960.

EDWARD S. SMITH,
Town Clerk.

Town Hall,
Bury.
September 16, 1960. [7007]

Borough of Maidenhead
Borough Engineer and Surveyor's Department

APPLICATIONS are invited for the post of **SENIOR PLANNING ASSISTANT** within Grade APT IV (£1,065-£1,220). The Council exercises wide planning functions and is now considering an extensive scheme for central area reconstruction.

Applicants must hold approved qualifications and have experience of development control including preparation of Committee Reports and evidence for Planning Appeals. Experience of attending Committees would be an advantage. Housing accommodation is provided and contribution made towards removal expenses in approved cases. The Council is operating a five-day week.

The appointment will be subject to the National Scheme of Conditions of Service, the Local Government Superannuation Acts, the satisfactory passing of a medical examination and termination by one month's notice on either side.

Applications, stating age, qualifications, experience and starting salary required, accompanied by the names of two referees, must be sent to C. T. Read, MBE, MICE, FRICS, 14 Craufurd Rise, Maidenhead, as soon as possible, but not later than October 10, 1960.

Canvassing will be a disqualification and candidates must disclose whether to their knowledge they are related to any member or senior official of the Council.

STANLEY PLATT,
Town Clerk.

Guildhall,
Maidenhead.
September, 1960. [6989]

Middlesex County Council
Required in

County Architect's Department
Building Surveyors, APT III (£925-£1,105) (a) for preparation of specifications, drawings, & other surveying duties in connection with minor building works; & (b) for work in connection with maintenance of buildings.

Junior Building Surveyor, APT I (£610-£765 plus London Weighting up to £40 p.a.) for work in connection with maintenance of buildings.

Both posts: Commencing salary according to qualifications and experience. Established, pensionable. Prescribed conditions. Application forms from County Architect, 1 Queen Anne's Gate Buildings, Dartmouth Street, S.W.1 (send s.a.f.e.) returnable by October 14. (Quote E.349 A. & B.N.). [7000]

Official Announcements

APPOINTMENTS (cont)

City of Carlisle ARCHITECTS urgently required ARCHITECTS

URGENTLY REQUIRED

VACANCIES exist in the Architectural Section of the City Surveyor's Office which offer excellent opportunity for interesting work on Educational and other Municipal projects of some magnitude.

Salary according to qualifications and experience. Senior men with ARIBA and suitable experience would be eligible for APT IV (£1,065-£1,220).

Housing accommodation will be available for renting to successful applicants in approved circumstances.

Forms of application, returnable not later than October 3, may be obtained from the City Surveyor, 18 Fisher Street, Carlisle.

H. D. A. ROBERTSON.

Town Clerk.

[6999]

Borough of Watford

APPLICATIONS are invited for the following appointments:—

(a) **Assistant Architect**, Salary within Grade APT IV (£1,065-£1,220 per annum).
(b) **Architectural Assistants**, Salaries within Grade APT II/III (£765-£1,065 per annum).
(c) **Architectural Assistant**, Salary within Grades APT I/II (£610-£880 per annum).

The Assistant appointed to post (a) will be a Section Leader and will carry a considerable amount of responsibility. Commencing salaries will be commensurate with experience and ability, and housing accommodation will be provided if required.

Applications to be sent to the undersigned not later than October 6, 1960.

F. C. SAGE,

Borough Engineer, Surveyor
& Architect.

Town Hall,
Watford,
Herts.

[7002]

Widnes Corporation

Borough Architect's Department

APPLICATIONS are invited for the appointment of **SENIOR ARCHITECT**, Grade APT V (£1,220-£1,375). The duties of the post will include work in connection with a varied Housing, Education and general programme, including a College of Further Education, Secondary Grammar and Modern Schools, Municipal Offices and Civic Centre.

Five-day week, housing accommodation to rent or lodging allowance in lieu for married applicants; removal expenses in full; superannuation scheme. Candidates must be associate members of the RIBA and suitably experienced.

Applications, quoting two referees, by October 5, 1960, to Borough Architect, Brendan House, Widnes.

FRANK HOWARTH.

Town Clerk.

Town Hall,
Widnes.

September 13, 1960.

[6991]

County Borough of Bury

APPLICATIONS invited for permanent appointment of **SENIOR ASSISTANT ARCHITECT**, APT IV (£1,065-£1,220). Commencing salary according to qualifications and experience.

Applicants should be experienced in dealing with contracts for large public works and should be professionally qualified.

Applications, stating age, details of training, qualifications, experience, present and previous appointments, together with names and addresses of two referees, must reach me by October 8, 1960.

EDWARD S. SMITH,

Town Clerk.

Town Hall,

Bury.

September 8, 1960.

[6985]

ARCHITECTURAL APPOINTMENTS VACANT

ASSISTANTS urgently required, intermediate to final standard. Interesting and varied work with opportunities for site supervision. Salary from £600 plus L.V. G. Gordon Stanham, Adamson, Gray & Partners, 9/10 Fenchurch Street, London, E.C.3. MANSION House 1010 or 5274.

[0350]

DEVEREUX & DAVIES require capable and enthusiastic assistant architects, salary £1,000 per annum or according to experience and ability.—Devereux & Davies, 3 Gower Street, Bedford Square, London, W.C.1.

[0660]

ARCHITECTURAL ASSISTANT, Intermediate standard. Busy London office. Good prospects. Box 3668.

[0080]

WEST END OFFICE requires Assistant Architects of Final and Intermediate Standards for interesting industrial projects in Home Counties. Good salaries offered to men with initiative and ability. Bonus scheme, five-day week, holiday arrangements honoured. Box 0627.

[0380]

An attractive vacancy occurs for an
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ARCHITECTURAL ASSISTANT required, with at least two years' office experience. Apply in writing to Thomas Mitchell & Partners, 20 Bedford Square, London, W.C.1. [0916]

BASIL SPENCE & PARTNERS require qualified and experienced Architects to fill positions of responsibility on a major building programme. Write to 48 Queen Anne Street, W.1, stating experience and salary required. [0740]

ARCHITECTURAL ASSISTANT required, able to work on own initiative, varied practice, small office, opportunity for advancement. Write or phone, Nicholson & Rushton, 2 New Square, Lincoln's Inn, W.C.2. HOLborn 2095. [0980]

ARCHITECTURAL ASSISTANT, London, Final standard. Industrial and commercial. Progressive and interesting. Salary according to experience and ability. Box 3667. [0079]

TAYLOR, YOUNG & PARTNERS, MANCHESTER, require assistants for work on schools, hospitals and other projects. Pension scheme, salary up to £1,200 per annum according to ability and experience. Apply in writing, to 195 Oxford Road, Manchester, 13. [6949]

ARCHITECTS of differing grades required for a variety of interesting work, particularly industrial. Please apply: A. M. Gear & Associates, 12 Manchester Square, London, W.1. Telephone: HUNter 0331. [6981]

A LONDON OFFICE in pleasant surroundings, not a country practice. Architect requires senior and intermediate assistants for work on large projects of very varied nature. Apply in writing, stating age, experience and salary required, to Roff Marsh, F.R.I.B.A., M.T.P.I., 125/7 London Road, Chelmsford. [6957]

ARCHITECTURAL ASSISTANT (Final Standard) required in busy office with interesting and varied general practice. Five-day week. Reply giving full particulars, age and salary required, to Godman & Kay, F.R.I.B.A., 13 North Parade, Horsham, Sussex. [6952]

A QUALIFIED ARCHITECTURAL ASSISTANT required immediately in Home Counties office. Successful applicant will have the opportunity of working on widely varying industrial, commercial and housing schemes. Five-day week. Write full particulars to Box 1621. [6956]

ASSISTANT ARCHITECT wanted for design and construction of important overseas university buildings (East Africa). Two year contract. Good salary, accommodation, prospects. Particulars to Hening & Chitty, 30 Percy Street, London, W.1. [6978]

A VACANCY occurs in the West End Branch of large provincial Architectural Practice for an assistant at Intermediate standard. The post offers considerable scope on varied projects. Five-day week, Luncheon Vouchers. Write, giving particulars of age, experience and salary required, to Box 1620. [6955]

RONALD WARD & PARTNERS invite applications from Architects, senior and junior. Long-term prospects. Scope for initiative and responsibility in interesting commercial, industrial and civic projects in British Isles, West Africa and Australia. Salaries commensurate with ability. Non-contributory Pension and Life Insurance schemes. Five-day week. Pleasant offices. Apply 29 Chesham Place, Belgrave Square, London, S.W.1. Tel: BELgravia 3361. [6971]

Official Announcements

ARCHITECTURAL APPOINT- MENTS VACANT (cont)

ELIE MAYORCAS requires architectural assistants with a minimum of three years' office experience in this country. Write, giving brief particulars of architectural education and experience, and salary required, to: 13 David Mews, Baker Street, W.1. [0360]

W. S. HATTRELL & PARTNERS, who are engaged on a wide range of work including Central and Urban Redevelopment Schemes, Television Studios, Schools, Licensed premises, Factories, Office Blocks, Training College, Shops, Exhibition Hall, etc., urgently require:—

(a) **ARCHITECTS** with good design sense and first-class knowledge of construction and administration capable of taking charge of contracts and controlling junior staff.

(b) **ARCHITECTURAL ASSISTANTS** capable of preparing full working drawings, specifications, etc., under supervision and keen to gain experience.

Salaries, which are reviewed annually, are dependent on ability and experience. Vacancies exist in our Coventry, London and Manchester offices and if you are capable, enthusiastic and prepared to work hard in a busy, lively, expanding practice, apply, stating experience, salary required and which of our offices you would prefer to work in, to 1 Queens Road, Coventry. [7001]

ARCHITECTURAL ASSISTANTS AND JUNIOR DRAUGHTSMEN urgently required for architect's department of Dolcis Ltd. Interesting work, five-day week, pension scheme. Write stating age, experience and salary required to Ellis E. Somake, FRIBA, Chief Architect, Dolcis Ltd., 7/13 Great Dover Street, S.E.1. [0349]

MANNING AND CLAMP have vacancies for architectural assistants of up to five years' office experience in their Richmond Green and London offices. The work covers a wide range of building types and includes large industrial and commercial buildings, parking garages, luxury flats, restaurants and Local Authority work, amongst other things. Apply in writing to No. 19, The Green, Richmond, Surrey. [0336]

ASSISTANT ARCHITECT with experience and/or interest in schools and multi-storey flats. Write Eric Lyons, Mill House, Bridge Road, Hampton Court, Surrey. [0338]

QUALIFIED ASSISTANT ARCHITECT for interesting and varied work in and around Midlands. Salary according to experience and ability. Forty-hour week, staff pension scheme.

Intermediate standard also required to assist on similar projects.

Hellberg & Harris, F/FRIBA, 13 Queen Victoria Road, Coventry. [7004]

LIVERPOOL OFFICE. Senior and Intermediate Assistants required, interesting and varied work, write or phone, H. Woodley, 24 College Road, Liverpool 23. Waterloo 1533. [7005]

TWO ARCHITECTS/PLANNERS needed by Covell & Matthews to join design group dealing with large planning and architectural projects. Salaries by arrangement. Telephone either London REGent 3651 or Manchester CENTral 7851. [6941]

ASSISTANT ARCHITECTS required for staffing a new office opening in Southampton for work on interesting programmes for Universities, the War Department and Ecclesiastical projects. Juniors also required.

Apply stating age, qualifications, experience and salary required to Robert Potter, F.R.I.B.A., and Richard Hare, B.Arch., A.R.I.B.A., of De Vaux House, Salisbury. [0337]

FELIX WALTER, FRIBA, requires assistants of post intermediate standard to fill responsible positions in expanding practice. Applicants must be competent draughtsmen with sound knowledge of construction and detailing, and keen interest in good design. Salary range £700-£850 according to ability and experience. Phone HOLborn 0535, or write: 4 Raymond Buildings, Gray's Inn, London, W.C.1. [6980]

ARCHITECTURAL ASSISTANT OR TECHNICIAN required in busy office. Should be capable of preparing working drawings from sketches and using own initiative when the occasion demands. Academic qualifications not essential.

Apply in writing giving all details of experience and salary required, etc., to:—Buttrick & Buttrick, FFRIBA, Chartered Architects, 43 Oswald Road, Scunthorpe, Lincs. [6993]

NEW TOWN OFFICE. Frederick Gibberd requires at Harlow (a) Qualified Assistant Architects and (b) Intermediate-Standard Assistants. Good salaries in accordance with ability. Work includes central area redevelopment, commercial buildings, swimming baths, technical colleges, shopping centres and housing in the provinces and in Harlow. Houses and flats available. Please apply in writing to Frederick Gibberd, 19 The Rows, Stone Cross, Harlow, Essex. [6987]

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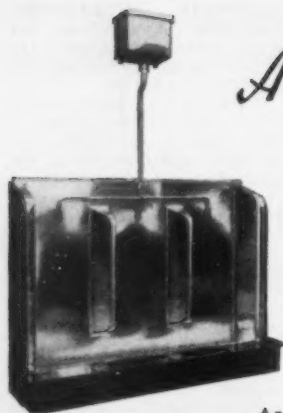
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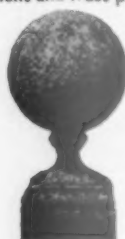


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